

| Equivalent flow rate plate / K | ceRatio HAB(mm) Prene/HAB(mm) HAB(mm)/Benzene vinylacetylene/HAB(mm) Butyne/HAB(mm) 1-butene Propylene Ethylene Nitrogene interval (nm) PSDF/HIM/HAB3.5mm/[dN/dlogDp]/Nmax PSDF/HIM/HAB6mm/[dN/dlogDp]/Nmax | C/O HAB(mm) benzene butene/HAB(mm) Acetylene/HAB(mm) Oxygene/HAB(mm) CO/HAB(mm) PSDF/HIM/HAB3.5mm/[dN/dlogDp]/Nmax PSDF/HIM/HAB6mm/[dN/dlogDp]/Nmax | Xn-butane /T Gaz Pyrene Vinylacetylene/HAB(mm) 1-3 Butadiene/HAB(mm) Butyne n-butane/HAB(mm) Acetylene/HAB(mm) Oxygene CO PSDF/HIM/HAB3.5mm/[dN/dlogDp]/Nmax PSDF/HIM/HAB6mm/[dN/dlogDp]/Nmax | XOxygen T gaz / K Naphthalene/HAB(mm) Vinylacetylene/HAB(mm) 1-3 Butadiene/HAB(mm) Propyne n-butane Acetylene Oxygene fv/HAB(mm) PSDF/HIM/HAB3.5mm/[dN/dlogDp]/Nmax PSDF/HIM/HAB6mm/[dN/dlogDp]/Nmax | XNitrogen plate/ Naphthalene 1-3 Butadiene Propylene Ethylene Nitrogene/HAB(mm) fv (ppm) PSDF/HIM/Diameter PSDF/HIM/HAB10mm/[dN/dlogDp]/Nmax | Class mm Naphthalene 1-3 Butadiene 1- Propylene/HAB(mm) Ethylene/HAB(mm) Nitrogene/HAB(mm) PSDF/HIM/Diameter PSDF/HIM/HAB10mm/[dN/dlogDp]/Nmax | Total T Naphthalene 1-3 Butadiene 1- Propylene/HAB(mm) Ethylene/HAB(mm) Nitrogene/HAB(mm) PSDF/HIM/Diameter PSDF/HIM/HAB10mm/[dN/dlogDp]/Nmax | | |
|--------------------------------------|---|---|--|---|---|---|--|----------|----------|
| 1.95 | 0.6 | 0.103 | 0.3431 | 0.5539 | standard sooting | flame | 6.71 | 1 | |
| | 1373 | 16 | 828 | 0.5 | 2.46E-07 | 0.5 | 3.87E-06 | 0.5 | 4.96E-05 |
| | 0 | 1.29E-06 | 0 | 7.30E-05 | 0 | 6.14E-05 | 0 | 1.85E-04 | |
| | 0 | 1.04E-04 | 0 | 0.02961 | 0 | 0.00166 | 0 | 0.01023 | |
| | 0 | 0.00948 | 0 | 0.09631 | 0 | 0.45444 | 0 | 0.13508 | |
| | 12 | 9.69888 | "[0; 1[" | 0 | 0 | 0 | | | |
| | | | | | 2 | 1713 | | 1 | |
| | | 2.20E-07 | 1 | 3.71E-06 | 1 | 4.88E-05 | 0.5 | 1.52E-06 | 0.5 |
| | | 7.94E-05 | 0.5 | 7.17E-05 | 0.5 | 2.21E-04 | 0.5 | 1.25E-04 | 0.5 |
| | | 0.02158 | 0.5 | 0.00192 | 0.5 | 0.01234 | 0.5 | 0.01042 | 0.5 |
| | | 0.07489 | 0.5 | 0.4459 | 0.5 | 0.14892 | 11 | 9.93738 | "[1; |
| 2[" | 0.0024 | 0.0022 | 0 | | | | | | |
| | | | | | 3 | 1720 | | 1.5 | |
| | | 2.21E-07 | 1.5 | 3.82E-06 | 1.5 | 4.96E-05 | 1 | 1.48E-06 | 1 |
| | | 8.02E-05 | 1 | 7.53E-05 | 1 | 2.35E-04 | 1 | 1.27E-04 | 1 |
| | | 0.01968 | 1 | 0.00193 | 1 | 0.01353 | 1 | 0.01055 | 1 |
| | | 0.06962 | 1 | 0.44389 | 1 | 0.15261 | 10 | 7.9499 | "[2; |
| 3[" | 0.19303 | 0.01397 | 0 | | | | | | |
| | | | | | 4 | 1700 | | 2 | |
| | | 2.46E-07 | 1.75 | 4.01E-06 | 2 | 5.12E-05 | 1.5 | 1.41E-06 | 1.5 |
| | | 7.86E-05 | 1.5 | 8.04E-05 | 1.5 | 2.53E-04 | 1.5 | 1.20E-04 | 1.5 |
| | | 0.01632 | 1.5 | 0.00184 | 1.5 | 0.01519 | 1.5 | 0.01035 | 1.5 |
| | 0.06 | 1.5 | 0.44009 | 1.5 | 0.1592 | 9 | 7.56315 | "[3; 4[" | |
| | 0.56149 | 0.08206 | 0 | | | | | | |
| | | | | | 7 | 1620 | | 2.5 | |
| | | 2.86E-07 | 2 | 4.14E-06 | 2.5 | 5.22E-05 | 2 | 1.81E-06 | 2 |
| | | 7.42E-05 | 2 | 8.44E-05 | 2 | 2.79E-04 | 2 | 1.08E-04 | 2 |
| | | 0.01102 | 2 | 0.00169 | 2 | 0.01755 | 2 | 0.00975 | 2 |
| | | 0.0443 | 2 | 0.42886 | 2 | 0.16828 | 8 | 7.38873 | "[4; |
| 5[" | 1 | 0.30374 | 0.00736 | | | | | | |
| | | | | | 10 | 1567 | | 3 | |
| | | 3.38E-07 | 2.25 | 4.32E-06 | 3 | 6.18E-05 | 2.5 | 2.63E-06 | 2.5 |
| | | 6.68E-05 | 2.5 | 8.96E-05 | 2.5 | 3.08E-04 | 2.5 | 8.04E-05 | 2.5 |
| | | 0.0039 | 2.5 | 0.00131 | 2.5 | 0.02232 | 2.5 | 0.00861 | 2.5 |
| | | 0.02464 | 2.5 | 0.42403 | 2.5 | 0.18398 | 7 | 5.84703 | "[5; |
| 6[" | 0.72155 | 0.67213 | 0.04052 | | | | | | |
| | | | | | 12 | 1393 | | 3.5 | |
| | | 4.30E-07 | 2.5 | 4.52E-06 | 3.3 | 6.70E-05 | 3 | 3.75E-06 | 3 |
| | | 3.99E-05 | 3 | 9.82E-05 | 3 | 3.16E-04 | 3 | 1.36E-05 | 3.3 |
| | | 7.81E-05 | 3 | 2.50E-04 | 3 | 0.02581 | 3 | 0.00531 | 3 |
| | | 0.01017 | 3 | 0.41795 | 3 | 0.19677 | 6 | 4.65637 | "[6; |
| 7[" | 0.29167 | 1 | 0.13845 | | | | | | |
| | | | | | | | | 4 | |
| | | 4.96E-07 | 2.75 | 4.59E-06 | 3.5 | 5.81E-05 | 3.3 | 4.37E-06 | 3.3 |
| | | 1.72E-05 | 3.3 | 8.30E-05 | 3.3 | 2.74E-04 | 3.5 | 2.30E-06 | 3.5 |
| | | 6.11E-05 | 3.5 | 7.36E-06 | 3.3 | 0.02774 | 3.3 | 0.00264 | 3.3 |

| | | | | | | | | |
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| | 0.00669 | 3.5 | 0.41911 | 3.3 | 0.20658 | 5.5 | 3.95995 | "[7; |
| 8[" | 0.13718 | 0.96687 | 0.31966 | | | | | |
| | | | | | | | 4.5 | |
| | 5.05E-07 | 3 | 4.86E-06 | 3.8 | 5.52E-05 | 3.5 | 3.80E-06 | 3.5 |
| | 8.96E-06 | 3.5 | 5.06E-05 | 3.5 | 2.20E-04 | 3.3 | 4.41E-06 | 3.8 |
| | 5.59E-05 | 3.3 | 3.07E-05 | 3.5 | 0.02659 | 3.5 | 7.08E-04 | 3.5 |
| | 0.00319 | 3.3 | 0.42941 | 3.5 | 0.20556 | 5 | 2.92556 | "[8; |
| 9[" | 0.02828 | 0.70363 | 0.73177 | | | | | |
| | | | | | | | 5 | |
| | 4.39E-07 | 3.2 | 5.51E-06 | 4.3 | 5.15E-05 | 3.8 | 3.15E-06 | 3.8 |
| | 6.74E-06 | 3.8 | 4.13E-05 | 3.8 | 2.00E-04 | 3.8 | 1.53E-06 | 4.3 |
| | 4.84E-05 | 3.8 | 4.73E-06 | 3.8 | 0.02609 | 3.8 | 4.07E-04 | 3.8 |
| | 0.00196 | 3.8 | 0.4212 | 3.8 | 0.20843 | 4.5 | 1.78078 | "[9; |
| 10[" | 0.01581 | 0.3936 | 0.88817 | | | | | |
| | | | | | | | 5.5 | |
| | 4.22E-07 | 3.5 | 5.80E-06 | 4.8 | 4.62E-05 | 4.3 | 1.90E-06 | 4.3 |
| | 4.45E-06 | 4.3 | 3.20E-05 | 4.3 | 1.71E-04 | 4.3 | 8.22E-07 | 4.8 |
| | 4.07E-05 | 4.3 | 3.11E-06 | 4.3 | 0.02488 | 4.3 | 2.88E-04 | 4.3 |
| | 0.00105 | 4.3 | 0.42318 | 4.3 | 0.21194 | 4 | 1.01759 | "[10; |
| 11[" | 0.01747 | 0.20017 | 0.88709 | | | | | |
| | | | | | | | 6 | |
| | 3.67E-07 | 3.75 | 5.68E-06 | 5.3 | 4.39E-05 | 4.8 | 1.33E-06 | 4.8 |
| | 3.40E-06 | 4.8 | 2.51E-05 | 4.8 | 1.47E-04 | 4.8 | 5.89E-07 | 5.3 |
| | 3.89E-05 | 4.8 | 2.53E-06 | 4.8 | 0.0229 | 4.8 | 2.51E-04 | 4.8 |
| | 8.66E-04 | 4.8 | 0.41294 | 4.8 | 0.20773 | 3.5 | 0.63599 | "[11; |
| 12[" | 0.01914 | 0.13391 | 1 | | | | | |
| | | | | | | | 7 | |
| | 3.23E-07 | 4 | 5.21E-06 | 5.8 | 4.22E-05 | 5.3 | 1.06E-06 | 5.3 |
| | 2.86E-06 | 5.3 | 2.32E-05 | 5.3 | 1.36E-04 | 5.3 | 4.85E-07 | 5.8 |
| | 3.52E-05 | 5.3 | 2.31E-06 | 5.3 | 0.02209 | 5.3 | 2.43E-04 | 5.3 |
| | 7.18E-04 | 5.3 | 0.41735 | 5.3 | 0.21084 | 3 | 0.3816 | "[12; |
| 13[" | 0 | 0.04821 | 0.62557 | | | | | |
| | | | | | | | 8 | |
| | 2.69E-07 | 4.25 | 4.77E-06 | 6.3 | 4.19E-05 | 5.8 | 9.09E-07 | 5.8 |
| | 2.60E-06 | 5.8 | 2.09E-05 | 5.8 | 1.26E-04 | 5.8 | 4.19E-07 | 6.3 |
| | 3.46E-05 | 5.8 | 2.16E-06 | 5.8 | 0.02102 | 5.8 | 2.37E-04 | 5.8 |
| | 7.27E-04 | 5.8 | 0.40982 | 5.8 | 0.20806 | | | "[13; 14[" |
| | 0 | 0.01942 | 0.36553 | | | | | |
| | | | | | | | 9 | |
| | 2.47E-07 | 4.5 | 4.50E-06 | 6.8 | 4.00E-05 | 6.3 | 7.40E-07 | 6.3 |
| | 2.29E-06 | 6.3 | 2.01E-05 | 6.3 | 1.20E-04 | 6.3 | 3.65E-07 | 6.8 |
| | 3.23E-05 | 6.3 | 2.12E-06 | 6.3 | 0.02061 | 6.3 | 2.43E-04 | 6.3 |
| | 6.43E-04 | 6.3 | 0.41415 | 6.3 | 0.21125 | | | "[14; 15[" |
| | 0 | 0.01384 | 0.16657 | | | | | |
| | | | | | | | 10 | |
| | 2.27E-07 | 5 | 4.10E-06 | 7.3 | 4.00E-05 | 6.8 | 6.51E-07 | 6.8 |
| | 2.06E-06 | 6.8 | 1.89E-05 | 6.8 | 1.12E-04 | 6.8 | 3.30E-07 | 7.3 |
| | 2.70E-05 | 6.8 | 1.98E-06 | 6.8 | 0.01978 | 6.8 | 2.42E-04 | 6.8 |
| | 6.02E-04 | 6.8 | 0.41305 | 6.8 | 0.21137 | | | "[15; 16[" |
| | 0 | 0 | 0.07631 | | | | | |
| | | | | | | | 12 | |
| | 2.87E-07 | 5.5 | 3.68E-06 | 7.8 | 3.90E-05 | 7.3 | 5.87E-07 | 7.3 |
| | 1.92E-06 | 7.3 | 1.85E-05 | 7.3 | 1.06E-04 | 7.3 | 3.07E-07 | 7.8 |
| | 2.92E-05 | 7.3 | 1.92E-06 | 7.3 | 0.01918 | 7.3 | 2.46E-04 | 7.3 |
| | 6.03E-04 | 7.3 | 0.41282 | 7.3 | 0.21195 | | | "[16; 17[" |
| | 0 | 0 | 0.01354 | | | | | |
| | | | | | | | 12 | |
| 6 | 3.34E-06 | 8 | 4.11E-05 | 8 | 5.47E-07 | 7.8 | 1.77E-06 | |

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| 7.8 | 1.75E-05 | 7.8 | 1.00E-04 | 7.8 | 2.69E-07 | 8 | 2.97E-05 |
| 7.8 | 1.90E-06 | 7.8 | 0.01853 | 7.8 | 2.51E-04 | 7.8 | 6.30E-04 |
| 7.8 | 0.41019 | 7.8 | 0.21123 | | "[17; 18[" | 0 | 0 |
| 0 | | | | | | | |
| 6.5 | 3.04E-06 | 8.3 | 4.08E-05 | 8.4 | 4.73E-07 | 8 | 1.75E-06 |
| 8 | 1.85E-05 | 8 | 1.02E-04 | 8 | 2.05E-07 | 8.3 | 2.73E-05 |
| 8 | 1.51E-06 | 8 | 0.01901 | 8 | 2.66E-04 | 8 | 4.52E-04 |
| 8 | 0.42713 | 8 | 0.22072 | | | | |
| 7 | 2.96E-06 | 8.4 | 4.00E-05 | | | 8.3 | 1.69E-06 |
| 1.80E-05 | 8.3 | 9.86E-05 | 8.3 | 2.58E-07 | 8.4 | 2.79E-05 | 9 |
| 1.86E-06 | 8.3 | 0.01848 | 8.3 | 2.64E-04 | 8.3 | 6.29E-04 | 8.3 |
| 0.41164 | 8.3 | 0.21308 | | | | | |
| 7.5 | 3.19E-06 | 9 | 3.96E-05 | | | 8.4 | 1.61E-06 |
| 1.76E-05 | 8.4 | 9.59E-05 | 9 | 2.26E-07 | 9 | 2.64E-05 | 9.5 |
| 1.91E-06 | 8.4 | 0.01806 | 8.4 | 2.63E-04 | 8.4 | 5.37E-04 | 8.4 |
| 0.41127 | 8.4 | 0.21265 | | | | | |
| 8 | 3.06E-06 | 9.5 | 3.91E-05 | | | 9 | 1.51E-06 |
| 1.71E-05 | 9 | 8.99E-05 | 9.5 | 2.08E-07 | 9.5 | 2.49E-05 | 10 |
| 1.85E-06 | 9 | 0.01752 | 9 | 2.74E-04 | 9 | 6.13E-04 | 9 |
| 0.41312 | 9 | 0.21373 | | | | | |
| 9 | 2.93E-06 | 10 | 3.95E-05 | | | 9.5 | 1.38E-06 |
| 1.70E-05 | 9.5 | 8.55E-05 | 10 | 2.00E-07 | 10 | 2.41E-05 | 10.5 |
| 1.92E-06 | 9.5 | 0.01687 | 9.5 | 2.82E-04 | 9.5 | 4.92E-04 | 9.5 |
| 0.40883 | 9.5 | 0.21198 | | | | | |
| 10 | 2.92E-06 | 10.5 | 4.39E-05 | | | 10 | 1.29E-06 |
| 1.70E-05 | 10 | 8.21E-05 | 10.5 | 1.83E-07 | 10.5 | 2.40E-05 | 11 |
| 2.00E-06 | 10 | 0.01651 | 10 | 2.96E-04 | 10 | 5.97E-04 | 10 |
| 0.41105 | 10 | 0.21299 | | | | | |
| 11 | 3.17E-06 | 11 | 4.49E-05 | | | 10.5 | 1.33E-06 |
| 1.87E-05 | 10.5 | 8.19E-05 | 11 | 1.81E-07 | 11 | 2.35E-05 | 11.5 |
| 1.87E-06 | 10.5 | 0.01668 | 10.5 | 3.23E-04 | 10.5 | 5.66E-04 | 10.5 |
| 0.40778 | 10.5 | 0.21214 | | | | | |
| 12 | 3.56E-06 | 11.5 | 4.16E-05 | | | 11 | 1.30E-06 |
| 1.94E-05 | 11 | 8.01E-05 | 11.5 | 1.73E-07 | 11.5 | 2.24E-05 | 12 |
| 1.93E-06 | 11 | 0.01665 | 11 | 3.45E-04 | 11 | 5.50E-04 | 11 |
| 0.4126 | 11 | 0.21528 | | | | | |
| | 12 | 4.47E-05 | | 11.5 | 1.23E-06 | 11.5 | 1.82E-05 |
| 11.5 | 7.65E-05 | 12 | 1.54E-07 | 12 | 2.20E-05 | 12.5 | 2.08E-06 |
| 11.5 | 0.01601 | 11.5 | 3.33E-04 | 11.5 | 6.06E-04 | 11.5 | 0.40962 |
| 11.5 | 0.21269 | | | | | | |
| | 12.5 | 4.50E-05 | | 12 | 1.22E-06 | 12 | 1.99E-05 |
| 12 | 7.57E-05 | 12.5 | 1.58E-07 | 12.5 | 2.14E-05 | | 12 |
| 0.01612 | 12 | 3.60E-04 | 12 | 6.83E-04 | 12 | 0.40648 | 12 |
| 0.21229 | | | | | | | |
| | | | 12.5 | 1.25E-06 | 12.5 | 2.12E-05 | 12.5 |
| 7.31E-05 | | | | | 12.5 | 0.01603 | 12.5 |

3.87E-04 12.5 4.92E-04 12.5 0.4176 12.5 0.21747