

2,4,5-Trichlorophenyl salicylate

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|-----------------------------|---|
| Inchi: | InChI=1S/C13H7Cl3O3/c14-8-5-10(16)12(6-9(8)15)19-13(18)7-3-1-2-4-11(7)17/h1-6,17H |
| InchiKey: | UGFUAUFSBFLNLL-UHFFFAOYSA-N |
| Formula: | C13H7Cl3O3 |
| SMILES: | O=C(Oc1cc(Cl)c(Cl)cc1Cl)c1ccccc1O |
| Mol. weight [g/mol]: | 317.55 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -169.82 | kJ/mol | Joback Method |
| hf | -342.33 | kJ/mol | Joback Method |
| hfus | 37.50 | kJ/mol | Joback Method |
| hvap | 86.39 | kJ/mol | Joback Method |
| log10ws | -5.16 | | Crippen Method |
| logp | 4.572 | | Crippen Method |
| mcvol | 196.540 | ml/mol | McGowan Method |
| pc | 3210.04 | kPa | Joback Method |
| tb | 834.34 | K | Joback Method |
| tc | 1097.03 | K | Joback Method |
| tf | 600.31 | K | Joback Method |
| vc | 0.684 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 467.23 | J/molxK | 834.34 | Joback Method |
| cpg | 507.40 | J/molxK | 1053.25 | Joback Method |
| cpg | 500.19 | J/molxK | 1009.47 | Joback Method |
| cpg | 492.67 | J/molxK | 965.69 | Joback Method |
| cpg | 484.74 | J/molxK | 921.90 | Joback Method |
| cpg | 476.30 | J/molxK | 878.12 | Joback Method |
| cpg | 514.43 | J/molxK | 1097.03 | Joback Method |
| dvisc | 0.0000070 | Paxs | 834.34 | Joback Method |
| dvisc | 0.0000093 | Paxs | 795.34 | Joback Method |
| dvisc | 0.0000127 | Paxs | 756.33 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000180 | Paxs | 717.33 | Joback Method |
| dvisc | 0.0000266 | Paxs | 678.32 | Joback Method |
| dvisc | 0.0000411 | Paxs | 639.32 | Joback Method |
| dvisc | 0.0000673 | Paxs | 600.31 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004192&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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