

Sebacic acid, isoheptyl 2,3,5,6-tetrachlorophenyl ester

Inchi: InChI=1S/C22H30Cl4O4/c1-15(2)10-9-13-29-18(27)11-7-5-3-4-6-8-12-19(28)30-22-20(2)

InchiKey: WKYLBSZRXPOLIO-UHFFFAOYSA-N

Formula: C22H30Cl4O4

SMILES: CC(C)CCCOC(=O)CCCCCCCC(=O)Oc1c(Cl)c(Cl)cc(Cl)c1Cl

Mol. weight [g/mol]: 500.28

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -309.75 | kJ/mol | Joback Method |
| hf | -864.60 | kJ/mol | Joback Method |
| hfus | 64.06 | kJ/mol | Joback Method |
| hvap | 104.95 | kJ/mol | Joback Method |
| log10ws | -9.01 | | Crippen Method |
| logp | 8.306 | | Crippen Method |
| mvol | 360.920 | ml/mol | McGowan Method |
| pc | 1035.90 | kPa | Joback Method |
| rinpol | 3319.00 | | NIST Webbook |
| rinpol | 3319.00 | | NIST Webbook |
| tb | 1051.22 | K | Joback Method |
| tc | 1286.99 | K | Joback Method |
| tf | 663.20 | K | Joback Method |
| vc | 1.397 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1089.30 | J/molxK | 1051.22 | Joback Method |
| cpg | 1130.99 | J/molxK | 1247.70 | Joback Method |
| cpg | 1125.53 | J/molxK | 1208.40 | Joback Method |
| cpg | 1118.66 | J/molxK | 1169.11 | Joback Method |
| cpg | 1110.35 | J/molxK | 1129.81 | Joback Method |
| cpg | 1100.58 | J/molxK | 1090.52 | Joback Method |
| cpg | 1135.08 | J/molxK | 1286.99 | Joback Method |
| dvisc | 0.0000203 | Paxs | 1051.22 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000255 | Paxs | 986.55 | Joback Method |
| dvisc | 0.0000331 | Paxs | 921.88 | Joback Method |
| dvisc | 0.0000447 | Paxs | 857.21 | Joback Method |
| dvisc | 0.0000634 | Paxs | 792.54 | Joback Method |
| dvisc | 0.0000957 | Paxs | 727.87 | Joback Method |
| dvisc | 0.0001564 | Paxs | 663.20 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U355293&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |

Legend

| | |
|----------------------------|---|
| cp_g: | 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 |
| hvap: | Enthalpy of vaporization at standard conditions |
| log₁₀ws: | Log ₁₀ of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| m_cvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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