

Glutaric acid, heptyl 2-(methylthio)phenyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C19H28O4S/c1-3-4-5-6-9-15-22-18(20)13-10-14-19(21)23-16-11-7-8-12-17(16) |
| InchiKey: | XJJCTJMBWBQBQC-UHFFFAOYSA-N |
| Formula: | C19H28O4S |
| SMILES: | CCCCCCCOC(=O)CCCC(=O)Oc1ccccc1SC |
| Mol. weight [g/mol]: | 352.49 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -222.84 | kJ/mol | Joback Method |
| hf | -658.16 | kJ/mol | Joback Method |
| hfus | 48.32 | kJ/mol | Joback Method |
| hvap | 85.95 | kJ/mol | Joback Method |
| log10ws | -5.58 | | Crippen Method |
| logp | 4.998 | | Crippen Method |
| mcvol | 286.040 | ml/mol | McGowan Method |
| pc | 1460.13 | kPa | Joback Method |
| rinqol | 2884.00 | | NIST Webbook |
| tb | 887.14 | K | Joback Method |
| tc | 1099.93 | K | Joback Method |
| tf | 521.55 | K | Joback Method |
| vc | 1.093 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 877.76 | J/mol×K | 887.14 | Joback Method |
| cpg | 892.30 | J/mol×K | 922.60 | Joback Method |
| cpg | 905.56 | J/mol×K | 958.07 | Joback Method |
| cpg | 917.57 | J/mol×K | 993.53 | Joback Method |
| cpg | 928.32 | J/mol×K | 1029.00 | Joback Method |
| cpg | 937.85 | J/mol×K | 1064.46 | Joback Method |
| cpg | 946.16 | J/mol×K | 1099.93 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| 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=U377543&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| 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: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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