

Benzeneacetic acid, 2,5-dimethoxy-4-propylthio, methyl ester

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| Inchi: | InChI=1S/C14H20O4S/c1-5-6-19-13-9-11(16-2)10(7-12(13)17-3)8-14(15)18-4/h7,9H,5-6 |
| InchiKey: | INXGDHLDEGRBHC-UHFFFAOYSA-N |
| Formula: | C14H20O4S |
| SMILES: | CCCS1c1cc(OC)c(CC(=O)OC)cc1OC |
| Mol. weight [g/mol]: | 284.37 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -260.28 | kJ/mol | Joback Method |
| hf | -597.54 | kJ/mol | Joback Method |
| hfus | 34.18 | kJ/mol | Joback Method |
| hvap | 71.81 | kJ/mol | Joback Method |
| log10ws | -3.38 | | Crippen Method |
| logp | 2.921 | | Crippen Method |
| mvol | 219.890 | ml/mol | McGowan Method |
| pc | 1980.59 | kPa | Joback Method |
| rinpol | 1950.00 | | NIST Webbook |
| tb | 751.25 | K | Joback Method |
| tc | 964.89 | K | Joback Method |
| tf | 462.54 | K | Joback Method |
| vc | 0.826 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 604.10 | J/mol×K | 751.25 | Joback Method |
| cpg | 618.85 | J/mol×K | 786.86 | Joback Method |
| cpg | 632.59 | J/mol×K | 822.46 | Joback Method |
| cpg | 645.29 | J/mol×K | 858.07 | Joback Method |
| cpg | 656.92 | J/mol×K | 893.68 | Joback Method |
| cpg | 667.46 | J/mol×K | 929.28 | Joback Method |
| cpg | 676.89 | J/mol×K | 964.89 | Joback Method |

Sources

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| 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=R418516&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 |
| h vap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| m cvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| r inpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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