

Phenol, 4,4'-[thiobis(methylene)]bis[2,6-bis(1,1-dimethylet

Other names:

«alpha», «alpha»'-thiobis(2,6-di-tert-butyl-p-cresol)

bis-[3,5-di-tert-butyl-4-hydroxybenzyl]sulfide

Inchi: InChI=1S/C30H46O2S/c1-27(2,3)21-13-19(14-22(25(21)31)28(4,5)6)17-33-18-20-15-23(

InchiKey: UDFARPRXWMDFQU-UHFFFAOYSA-N

Formula: C30H46O2S

SMILES: CC(C)(C)c1cc(CSCc2cc(C(C)(C)C)c(O)c(C(C)(C)C)c2)cc(C(C)(C)C)c1O

Mol. weight [g/mol]: 470.75

CAS: 1620-93-5

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 123.26 | kJ/mol | Joback Method |
| hf | -583.10 | kJ/mol | Joback Method |
| hfus | 46.02 | kJ/mol | Joback Method |
| hvap | 117.23 | kJ/mol | Joback Method |
| log10ws | -9.11 | | Crippen Method |
| logp | 8.721 | | Crippen Method |
| mcvol | 414.130 | ml/mol | McGowan Method |
| pc | 1037.23 | kPa | Joback Method |
| tb | 1176.18 | K | Joback Method |
| tc | 1443.03 | K | Joback Method |
| tf | 798.30 | K | Joback Method |
| vc | 1.442 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1504.42 | J/molxK | 1176.18 | Joback Method |
| cpg | 1534.31 | J/molxK | 1220.66 | Joback Method |
| cpg | 1565.99 | J/molxK | 1265.13 | Joback Method |
| cpg | 1599.90 | J/molxK | 1309.61 | Joback Method |
| cpg | 1636.48 | J/molxK | 1354.08 | Joback Method |
| cpg | 1676.15 | J/molxK | 1398.56 | Joback Method |
| cpg | 1719.35 | J/molxK | 1443.03 | 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=C1620935&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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