

m-Terephthalanisidide

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| Other names: | 3,3'-Dimethoxy terephthalanilide 3',3''-3,3'-Dimethoxy terephthalanilide N,N'-Bis-(m-methoxyphenyl)terphtalamide |
| Inchi: | InChI=1S/C22H20N2O4/c1-27-19-7-3-5-17(13-19)23-21(25)15-9-11-16(12-10-15)22(26) |
| InchiKey: | BTEAFZRBSOWUOB-UHFFFAOYSA-N |
| Formula: | C22H20N2O4 |
| SMILES: | COc1cccc(NC(=O)c2ccc(C(=O)Nc3cccc(OC)c3)cc2)c1 |
| Mol. weight [g/mol]: | 376.41 |
| CAS: | 6957-81-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|------------------|----------------------|----------------|
| chs | -10966.30 ± 3.00 | kJ/mol | NIST Webbook |
| gf | 153.64 | kJ/mol | Joback Method |
| hf | -340.00 ± 8.80 | kJ/mol | NIST Webbook |
| hfs | -549.20 ± 3.20 | kJ/mol | NIST Webbook |
| hfus | 49.46 | kJ/mol | Joback Method |
| hsub | 209.00 ± 8.40 | kJ/mol | NIST Webbook |
| hvap | 104.56 | kJ/mol | Joback Method |
| log10ws | -5.66 | | Crippen Method |
| logp | 4.208 | | Crippen Method |
| mcvol | 284.400 | ml/mol | McGowan Method |
| pc | 1950.95 | kPa | Joback Method |
| tb | 1050.66 | K | Joback Method |
| tc | 1302.73 | K | Joback Method |
| tf | 704.16 | K | Joback Method |
| vc | 1.062 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 922.15 | J/mol×K | 1260.72 | Joback Method |
| cpg | 891.42 | J/mol×K | 1050.66 | Joback Method |
| cpg | 900.44 | J/mol×K | 1092.67 | Joback Method |

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|-------|---------------|---------|---------|---------------|
| cpg | 907.96 | J/mol×K | 1134.68 | Joback Method |
| cpg | 914.04 | J/mol×K | 1176.70 | Joback Method |
| cpg | 918.75 | J/mol×K | 1218.71 | Joback Method |
| cpg | 924.31 | J/mol×K | 1302.73 | Joback Method |
| cps | 458.10 | J/mol×K | 298.15 | NIST Webbook |
| hsubt | 209.20 ± 8.40 | kJ/mol | 190.00 | NIST Webbook |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C6957819&Units=SI |

Legend

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|-----------------|--|
| chs: | Standard solid enthalpy of combustion |
| cpg: | Ideal gas heat capacity |
| cps: | Solid phase heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfs: | Solid phase enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hsub: | Enthalpy of sublimation at standard conditions |
| hsubt: | Enthalpy of sublimation at a given temperature |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | 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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