

4-Toluenesulfonic acid 4-azulylethyl ester

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| Inchi: | InChI=1S/C19H18O3S/c1-15-9-11-18(12-10-15)23(20,21)22-14-13-17-6-3-2-5-16-7-4-8- |
| InchiKey: | INMMWFDWWQDEBX-UHFFFAOYSA-N |
| Formula: | C19H18O3S |
| SMILES: | <chem>Cc1ccc(S(=O)(=O)OCCc2ccccc3cccc2-3)cc1</chem> |
| Mol. weight [g/mol]: | 326.41 |
| CAS: | 26154-63-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -152.23 | kJ/mol | Joback Method |
| hf | -379.87 | kJ/mol | Joback Method |
| hfus | 41.85 | kJ/mol | Joback Method |
| hvap | 86.45 | kJ/mol | Joback Method |
| ie | 7.30 | eV | NIST Webbook |
| log10ws | -5.77 | | Crippen Method |
| logp | 4.048 | | Crippen Method |
| mcvol | 245.550 | ml/mol | McGowan Method |
| pc | 2433.84 | kPa | Joback Method |
| tb | 786.62 | K | Joback Method |
| tc | 1018.90 | K | Joback Method |
| tf | 475.26 | K | Joback Method |
| vc | 0.950 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 684.04 | J/molxK | 786.62 | Joback Method |
| cpg | 699.52 | J/molxK | 825.33 | Joback Method |
| cpg | 713.65 | J/molxK | 864.05 | Joback Method |
| cpg | 726.48 | J/molxK | 902.76 | Joback Method |
| cpg | 738.06 | J/molxK | 941.47 | Joback Method |
| cpg | 748.48 | J/molxK | 980.18 | Joback Method |
| cpg | 757.78 | J/molxK | 1018.90 | 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=C26154632&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 |
| ie: | Ionization energy |
| 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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