

3-Tert-butyl-4-(dimethylamino)phenol

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|-----------------------------|---|
| Inchi: | InChI=1S/C12H19NO/c1-12(2,3)10-8-9(14)6-7-11(10)13(4)5/h6-8,14H,1-5H3 |
| InchiKey: | JBSVDFYRJWPKER-UHFFFAOYSA-N |
| Formula: | C12H19NO |
| SMILES: | CN(C)c1ccc(O)cc1C(C)(C)C |
| Mol. weight [g/mol]: | 193.29 |
| CAS: | 24197-40-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 111.94 | kJ/mol | Joback Method |
| hf | -184.48 | kJ/mol | Joback Method |
| hfus | 21.88 | kJ/mol | Joback Method |
| hvap | 59.01 | kJ/mol | Joback Method |
| log10ws | -2.24 | | Crippen Method |
| logp | 2.756 | | Crippen Method |
| mcvol | 172.030 | ml/mol | McGowan Method |
| pc | 2805.41 | kPa | Joback Method |
| tb | 595.45 | K | Joback Method |
| tc | 817.19 | K | Joback Method |
| tf | 410.55 | K | Joback Method |
| vc | 0.573 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 444.80 | J/molxK | 595.45 | Joback Method |
| cpg | 461.10 | J/molxK | 632.41 | Joback Method |
| cpg | 476.25 | J/molxK | 669.36 | Joback Method |
| cpg | 490.36 | J/molxK | 706.32 | Joback Method |
| cpg | 503.54 | J/molxK | 743.28 | Joback Method |
| cpg | 515.90 | J/molxK | 780.23 | Joback Method |
| cpg | 527.56 | J/molxK | 817.19 | 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=C24197408&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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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