

2-(Neopentylloxycarbonyl)benzoic acid

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| Inchi: | InChI=1S/C13H16O4/c1-13(2,3)8-17-12(16)10-7-5-4-6-9(10)11(14)15/h4-7H,8H2,1-3H3, |
| InchiKey: | FSEWDIPTRJFLRS-UHFFFAOYSA-N |
| Formula: | C13H16O4 |
| SMILES: | CC(C)(C)COC(=O)c1ccccc1C(=O)O |
| Mol. weight [g/mol]: | 236.26 |
| CAS: | 83646-70-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -335.46 | kJ/mol | Joback Method |
| hf | -604.95 | kJ/mol | Joback Method |
| hfus | 24.14 | kJ/mol | Joback Method |
| hvap | 78.76 | kJ/mol | Joback Method |
| log10ws | -3.21 | | Crippen Method |
| logp | 2.588 | | Crippen Method |
| mcvol | 185.150 | ml/mol | McGowan Method |
| pc | 2684.64 | kPa | Joback Method |
| rinpol | 1809.00 | | NIST Webbook |
| rinpol | 1809.00 | | NIST Webbook |
| tb | 747.61 | K | Joback Method |
| tc | 955.90 | K | Joback Method |
| tf | 460.54 | K | Joback Method |
| vc | 0.694 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 517.46 | J/molxK | 747.61 | Joback Method |
| cpg | 529.15 | J/molxK | 782.33 | Joback Method |
| cpg | 540.00 | J/molxK | 817.04 | Joback Method |
| cpg | 550.07 | J/molxK | 851.76 | Joback Method |
| cpg | 559.39 | J/molxK | 886.47 | Joback Method |
| cpg | 568.01 | J/molxK | 921.19 | Joback Method |
| cpg | 575.94 | J/molxK | 955.90 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0008855 | Paxs | 460.54 | Joback Method |
| dvisc | 0.0003838 | Paxs | 508.38 | Joback Method |
| dvisc | 0.0001921 | Paxs | 556.23 | Joback Method |
| dvisc | 0.0001073 | Paxs | 604.08 | Joback Method |
| dvisc | 0.0000652 | Paxs | 651.92 | Joback Method |
| dvisc | 0.0000425 | Paxs | 699.76 | Joback Method |
| dvisc | 0.0000292 | Paxs | 747.61 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C83646702&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| 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 |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.chemeo.com/cid/83-310-5/2-Neopentylloxycarbonyl-benzoic-acid.pdf>

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