

2-((But-3-enyloxy)carbonyl)benzoic acid

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|-----------------------------|---|
| Inchi: | InChI=1S/C12H12O4/c1-2-3-8-16-12(15)10-7-5-4-6-9(10)11(13)14/h2,4-7H,1,3,8H2,(H,1 |
| InchiKey: | ITFNEGUSSAPBNU-UHFFFAOYSA-N |
| Formula: | C12H12O4 |
| SMILES: | C=CCCOC(=O)c1ccccc1C(=O)O |
| Mol. weight [g/mol]: | 220.22 |
| CAS: | 113793-34-3 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -258.88 | kJ/mol | Joback Method |
| hf | -450.13 | kJ/mol | Joback Method |
| hfus | 27.68 | kJ/mol | Joback Method |
| hvap | 77.16 | kJ/mol | Joback Method |
| log10ws | -2.88 | | Crippen Method |
| logp | 2.118 | | Crippen Method |
| mvol | 166.760 | ml/mol | McGowan Method |
| pc | 3049.04 | kPa | Joback Method |
| rinpol | 1800.00 | | NIST Webbook |
| tb | 724.64 | K | Joback Method |
| tc | 929.19 | K | Joback Method |
| tf | 445.09 | K | Joback Method |
| vc | 0.629 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 438.60 | J/molxK | 724.64 | Joback Method |
| cpg | 448.97 | J/molxK | 758.73 | Joback Method |
| cpg | 458.64 | J/molxK | 792.82 | Joback Method |
| cpg | 467.63 | J/molxK | 826.91 | Joback Method |
| cpg | 475.97 | J/molxK | 861.00 | Joback Method |
| cpg | 483.66 | J/molxK | 895.09 | Joback Method |
| cpg | 490.74 | J/molxK | 929.19 | Joback Method |
| dvisc | 0.0010920 | Paxs | 445.09 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0004977 | Paxs | 491.68 | Joback Method |
| dvisc | 0.0002598 | Paxs | 538.27 | Joback Method |
| dvisc | 0.0001505 | Paxs | 584.87 | Joback Method |
| dvisc | 0.0000944 | Paxs | 631.46 | Joback Method |
| dvisc | 0.0000632 | Paxs | 678.05 | Joback Method |
| dvisc | 0.0000445 | Paxs | 724.64 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C113793343&Units=SI |
| 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 |

Legend

| | |
|----------------------------|---|
| cp_g: | 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: | Log ₁₀ of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| m_{cvol}: | 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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