

Terephthalic acid, 3-bromobenzyl propyl ester

Inchi: InChI=1S/C18H17BrO4/c1-2-10-22-17(20)14-6-8-15(9-7-14)18(21)23-12-13-4-3-5-16(19)
InchiKey: GNFJGFAWBOTCKT-UHFFFAOYSA-N
Formula: C18H17BrO4
SMILES: CCCOC(=O)c1ccc(C(=O)OCc2ccccc(Br)c2)cc1
Mol. weight [g/mol]: 377.23

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -147.28 | kJ/mol | Joback Method |
| hf | -428.00 | kJ/mol | Joback Method |
| hfus | 40.54 | kJ/mol | Joback Method |
| hvap | 86.28 | kJ/mol | Joback Method |
| log10ws | -6.07 | | Crippen Method |
| logp | 4.373 | | Crippen Method |
| mcvol | 249.340 | ml/mol | McGowan Method |
| pc | 2157.31 | kPa | Joback Method |
| rinpol | 3107.00 | | NIST Webbook |
| rinpol | 3107.00 | | NIST Webbook |
| tb | 893.30 | K | Joback Method |
| tc | 1131.83 | K | Joback Method |
| tf | 574.62 | K | Joback Method |
| vc | 0.938 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 699.78 | J/molxK | 893.30 | Joback Method |
| cpg | 711.67 | J/molxK | 933.06 | Joback Method |
| cpg | 722.33 | J/molxK | 972.81 | Joback Method |
| cpg | 731.82 | J/molxK | 1012.57 | Joback Method |
| cpg | 740.17 | J/molxK | 1052.32 | Joback Method |
| cpg | 747.42 | J/molxK | 1092.08 | Joback Method |
| cpg | 753.62 | J/molxK | 1131.83 | Joback Method |
| dvisc | 0.0003867 | Paxs | 574.62 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002489 | Paxs | 627.73 | Joback Method |
| dvisc | 0.0001716 | Paxs | 680.85 | Joback Method |
| dvisc | 0.0001249 | Paxs | 733.96 | Joback Method |
| dvisc | 0.0000949 | Paxs | 787.07 | Joback Method |
| dvisc | 0.0000746 | Paxs | 840.19 | Joback Method |
| dvisc | 0.0000604 | Paxs | 893.30 | 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=U383020&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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/99-303-6/Terephthalic-acid-3-bromobenzyl-propyl-ester.pdf>

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