

Terephthalic acid, 2-bromophenethyl butyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C20H21BrO4/c1-2-3-13-24-19(22)16-8-10-17(11-9-16)20(23)25-14-12-15-6-4-5 |
| InchiKey: | OOQLCLXUOCQYGW-UHFFFAOYSA-N |
| Formula: | C20H21BrO4 |
| SMILES: | CCCCOC(=O)c1ccc(C(=O)OCCc2ccccc2Br)cc1 |
| Mol. weight [g/mol]: | 405.28 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -130.44 | kJ/mol | Joback Method |
| hf | -469.28 | kJ/mol | Joback Method |
| hfus | 45.72 | kJ/mol | Joback Method |
| hvap | 90.74 | kJ/mol | Joback Method |
| log10ws | -6.41 | | Crippen Method |
| logp | 4.806 | | Crippen Method |
| mvol | 277.520 | ml/mol | McGowan Method |
| pc | 1818.50 | kPa | Joback Method |
| rinpol | 3017.00 | | NIST Webbook |
| rinpol | 3017.00 | | NIST Webbook |
| tb | 939.06 | K | Joback Method |
| tc | 1173.28 | K | Joback Method |
| tf | 597.16 | K | Joback Method |
| vc | 1.050 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 813.72 | J/molxK | 939.06 | Joback Method |
| cpg | 825.86 | J/molxK | 978.10 | Joback Method |
| cpg | 836.75 | J/molxK | 1017.13 | Joback Method |
| cpg | 846.44 | J/molxK | 1056.17 | Joback Method |
| cpg | 854.98 | J/molxK | 1095.21 | Joback Method |
| cpg | 862.41 | J/molxK | 1134.24 | Joback Method |
| cpg | 868.78 | J/molxK | 1173.28 | Joback Method |
| dvisc | 0.0003142 | Paxs | 597.16 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001976 | Paxs | 654.14 | Joback Method |
| dvisc | 0.0001339 | Paxs | 711.13 | Joback Method |
| dvisc | 0.0000961 | Paxs | 768.11 | Joback Method |
| dvisc | 0.0000722 | Paxs | 825.09 | Joback Method |
| dvisc | 0.0000563 | Paxs | 882.08 | Joback Method |
| dvisc | 0.0000452 | Paxs | 939.06 | 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=U416024&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/97-900-5/Terephthalic-acid-2-bromophenethyl-butyl-ester.pdf>

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