

Phthalic acid, 2-(4-bromophenoxy)ethyl nonyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C25H31BrO5/c1-2-3-4-5-6-7-10-17-30-24(27)22-11-8-9-12-23(22)25(28)31-19 |
| InchiKey: | MZHFXCRIWGTMO-UHFFFAOYSA-N |
| Formula: | C25H31BrO5 |
| SMILES: | CCCCCCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccc(Br)cc1 |
| Mol. weight [g/mol]: | 491.42 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -193.34 | kJ/mol | Joback Method |
| hf | -704.70 | kJ/mol | Joback Method |
| hfus | 59.86 | kJ/mol | Joback Method |
| hvap | 104.28 | kJ/mol | Joback Method |
| log10ws | -8.24 | | Crippen Method |
| logp | 6.592 | | Crippen Method |
| mvol | 353.840 | ml/mol | McGowan Method |
| pc | 1238.09 | kPa | Joback Method |
| rinpol | 3335.00 | | NIST Webbook |
| rinpol | 3335.00 | | NIST Webbook |
| tb | 1075.88 | K | Joback Method |
| tc | 1317.64 | K | Joback Method |
| tf | 675.74 | K | Joback Method |
| vc | 1.347 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1134.39 | J/molxK | 1075.88 | Joback Method |
| cpg | 1175.04 | J/molxK | 1277.35 | Joback Method |
| cpg | 1169.93 | J/molxK | 1237.05 | Joback Method |
| cpg | 1163.37 | J/molxK | 1196.76 | Joback Method |
| cpg | 1155.30 | J/molxK | 1156.47 | Joback Method |
| cpg | 1145.66 | J/molxK | 1116.17 | Joback Method |
| cpg | 1178.73 | J/molxK | 1317.64 | Joback Method |
| dvisc | 0.0000155 | Paxs | 1075.88 | Joback Method |

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|-------|-----------|------|---------|---------------|
| dvisc | 0.0000196 | Paxs | 1009.19 | Joback Method |
| dvisc | 0.0000255 | Paxs | 942.50 | Joback Method |
| dvisc | 0.0000346 | Paxs | 875.81 | Joback Method |
| dvisc | 0.0000494 | Paxs | 809.12 | Joback Method |
| dvisc | 0.0000751 | Paxs | 742.43 | Joback Method |
| dvisc | 0.0001240 | Paxs | 675.74 | 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=U382898&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |
| 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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