

Glutaric acid, 2-ethylhexyl 4-bromo-2-methoxyphenyl ester

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| Inchi: | InChI=1S/C20H29BrO5/c1-4-6-8-15(5-2)14-25-19(22)9-7-10-20(23)26-17-12-11-16(21)1 |
| InchiKey: | CYHKZMSECOXDBB-UHFFFAOYSA-N |
| Formula: | C20H29BrO5 |
| SMILES: | CCCCC(CC)COC(=O)CCCC(=O)Oc1ccc(Br)cc1OC |
| Mol. weight [g/mol]: | 429.35 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -350.29 | kJ/mol | Joback Method |
| hf | -843.31 | kJ/mol | Joback Method |
| hfus | 49.34 | kJ/mol | Joback Method |
| hvap | 90.48 | kJ/mol | Joback Method |
| log10ws | -6.29 | | Crippen Method |
| logp | 5.293 | | Crippen Method |
| mvol | 307.150 | ml/mol | McGowan Method |
| pc | 1387.11 | kPa | Joback Method |
| rinpol | 2766.00 | | NIST Webbook |
| rinpol | 2766.00 | | NIST Webbook |
| tb | 934.36 | K | Joback Method |
| tc | 1149.94 | K | Joback Method |
| tf | 577.97 | K | Joback Method |
| vc | 1.169 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 945.56 | J/molxK | 934.36 | Joback Method |
| cpg | 959.31 | J/molxK | 970.29 | Joback Method |
| cpg | 971.75 | J/molxK | 1006.22 | Joback Method |
| cpg | 982.89 | J/molxK | 1042.15 | Joback Method |
| cpg | 992.74 | J/molxK | 1078.08 | Joback Method |
| cpg | 1001.32 | J/molxK | 1114.01 | Joback Method |
| cpg | 1008.64 | J/molxK | 1149.94 | Joback Method |
| dvisc | 0.0002618 | Paxs | 577.97 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001536 | Paxs | 637.37 | Joback Method |
| dvisc | 0.0000987 | Paxs | 696.77 | Joback Method |
| dvisc | 0.0000680 | Paxs | 756.16 | Joback Method |
| dvisc | 0.0000495 | Paxs | 815.56 | Joback Method |
| dvisc | 0.0000376 | Paxs | 874.96 | Joback Method |
| dvisc | 0.0000295 | Paxs | 934.36 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U393889&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 |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |

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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