

Phthalic acid, 5-bromo-2-methoxybenzyl isobutyl ester

Inchi:	InChI=1S/C20H21BrO5/c1-13(2)11-25-19(22)16-6-4-5-7-17(16)20(23)26-12-14-10-15(21)
InchiKey:	VAFNTEBFBKXHXOZ-UHFFFAOYSA-N
Formula:	C20H21BrO5
SMILES:	<chem>COC1ccc(Br)cc1COC(=O)c1ccccc1C(=O)OCC(C)C</chem>
Mol. weight [g/mol]:	421.28

Physical Properties

Property code	Value	Unit	Source
gf	-247.51	kJ/mol	Joback Method
hf	-618.25	kJ/mol	Joback Method
hfus	42.99	kJ/mol	Joback Method
hvap	93.42	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	4.627		Crippen Method
mvol	283.390	ml/mol	McGowan Method
pc	1781.84	kPa	Joback Method
rinpol	2742.00		NIST Webbook
rinpol	2742.00		NIST Webbook
tb	966.02	K	Joback Method
tc	1202.98	K	Joback Method
tf	616.91	K	Joback Method
vc	1.062	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	838.43	J/molxK	966.02	Joback Method
cpg	879.91	J/molxK	1163.49	Joback Method
cpg	874.44	J/molxK	1123.99	Joback Method
cpg	867.58	J/molxK	1084.50	Joback Method
cpg	859.30	J/molxK	1045.01	Joback Method
cpg	849.59	J/molxK	1005.51	Joback Method
cpg	884.01	J/molxK	1202.98	Joback Method
dvisc	0.0000313	Paxs	966.02	Joback Method

dvisc	0.0000389	Paxs	907.84	Joback Method
dvisc	0.0000498	Paxs	849.65	Joback Method
dvisc	0.0000662	Paxs	791.47	Joback Method
dvisc	0.0000921	Paxs	733.28	Joback Method
dvisc	0.0001355	Paxs	675.10	Joback Method
dvisc	0.0002145	Paxs	616.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382865&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

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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