

Diethylmalonic acid, 4-bromo-2-methoxyphenyl hexyl ester

Inchi:	InChI=1S/C20H29BrO5/c1-5-8-9-10-13-25-18(22)20(6-2,7-3)19(23)26-16-12-11-15(21)14
InchiKey:	SHDNEOLLXNVUPM-UHFFFAOYSA-N
Formula:	C20H29BrO5
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(Br)cc1OC
Mol. weight [g/mol]:	429.35

Physical Properties

Property code	Value	Unit	Source
gf	-345.01	kJ/mol	Joback Method
hf	-846.78	kJ/mol	Joback Method
hfus	45.45	kJ/mol	Joback Method
hvap	89.58	kJ/mol	Joback Method
log10ws	-6.29		Crippen Method
logp	5.293		Crippen Method
mcvol	307.150	ml/mol	McGowan Method
pc	1398.55	kPa	Joback Method
rinsol	2543.00		NIST Webbook
tb	931.57	K	Joback Method
tc	1149.49	K	Joback Method
tf	595.39	K	Joback Method
vc	1.165	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	945.57	J/molxK	931.57	Joback Method
cpg	959.41	J/molxK	967.89	Joback Method
cpg	972.02	J/molxK	1004.21	Joback Method
cpg	983.42	J/molxK	1040.53	Joback Method
cpg	993.66	J/molxK	1076.85	Joback Method
cpg	1002.78	J/molxK	1113.17	Joback Method
cpg	1010.81	J/molxK	1149.49	Joback Method
dvisc	0.0002086	Paxs	595.39	Joback Method
dvisc	0.0001257	Paxs	651.42	Joback Method

dvisc	0.0000820	Paxs	707.45	Joback Method
dvisc	0.0000570	Paxs	763.48	Joback Method
dvisc	0.0000416	Paxs	819.51	Joback Method
dvisc	0.0000317	Paxs	875.54	Joback Method
dvisc	0.0000249	Paxs	931.57	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U370949&Units=SI

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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