

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

Inchi:	InChI=1S/C25H39BrO5/c1-5-8-9-10-11-12-13-14-15-18-30-23(27)25(6-2,7-3)24(28)31-2
InchiKey:	HDEUNJPWVYRILL-UHFFFAOYSA-N
Formula:	C25H39BrO5
SMILES:	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(Br)cc1OC
Mol. weight [g/mol]:	499.48

Physical Properties

Property code	Value	Unit	Source
gf	-302.91	kJ/mol	Joback Method
hf	-949.98	kJ/mol	Joback Method
hfus	58.40	kJ/mol	Joback Method
hvap	100.70	kJ/mol	Joback Method
log10ws	-8.39		Crippen Method
logp	7.244		Crippen Method
mvol	377.600	ml/mol	McGowan Method
pc	1005.26	kPa	Joback Method
rinpol	3034.00		NIST Webbook
rinpol	3034.00		NIST Webbook
tb	1045.97	K	Joback Method
tc	1280.89	K	Joback Method
tf	651.74	K	Joback Method
vc	1.444	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1247.83	J/mol×K	1045.97	Joback Method
cpg	1262.47	J/mol×K	1085.12	Joback Method
cpg	1275.58	J/mol×K	1124.28	Joback Method
cpg	1287.22	J/mol×K	1163.43	Joback Method
cpg	1297.45	J/mol×K	1202.59	Joback Method
cpg	1306.34	J/mol×K	1241.74	Joback Method
cpg	1313.96	J/mol×K	1280.89	Joback Method
dvisc	0.0001110	Paxs	651.74	Joback Method

dvisc	0.0000635	Paxs	717.45	Joback Method
dvisc	0.0000399	Paxs	783.15	Joback Method
dvisc	0.0000269	Paxs	848.86	Joback Method
dvisc	0.0000192	Paxs	914.56	Joback Method
dvisc	0.0000143	Paxs	980.26	Joback Method
dvisc	0.0000111	Paxs	1045.97	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=U371162&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

Latest version available from:

<https://www.chemeo.com/cid/95-198-8/Diethylmalonic-acid-4-bromo-2-methoxyphenyl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-26 21:36:27.870168562 +0000 UTC m=+16456636.790745873.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.