

Propanoic acid, 2,3-dibromo, 4-methylpentyl ester

Inchi:	InChI=1S/C9H16Br2O2/c1-7(2)4-3-5-13-9(12)8(11)6-10/h7-8H,3-6H2,1-2H3
InchiKey:	RERWDLPVFANPHQ-UHFFFAOYSA-N
Formula:	C9H16Br2O2
SMILES:	CC(C)CCCOC(=O)C(Br)CBr
Mol. weight [g/mol]:	316.03

Physical Properties

Property code	Value	Unit	Source
gf	-185.26	kJ/mol	Joback Method
hf	-431.79	kJ/mol	Joback Method
hfus	25.38	kJ/mol	Joback Method
hvap	56.88	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.124		Crippen Method
mvol	180.110	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
rinpol	1474.00		NIST Webbook
rinpol	1474.00		NIST Webbook
tb	613.05	K	Joback Method
tc	820.85	K	Joback Method
tf	352.95	K	Joback Method
vc	0.675	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.74	J/molxK	613.05	Joback Method
cpg	461.72	J/molxK	786.22	Joback Method
cpg	451.83	J/molxK	751.58	Joback Method
cpg	441.31	J/molxK	716.95	Joback Method
cpg	430.13	J/molxK	682.32	Joback Method
cpg	418.29	J/molxK	647.68	Joback Method
cpg	471.01	J/molxK	820.85	Joback Method
dvisc	0.0001885	Paxs	613.05	Joback Method

dvisc	0.0002468	Paxs	569.70	Joback Method
dvisc	0.0003379	Paxs	526.35	Joback Method
dvisc	0.0004893	Paxs	483.00	Joback Method
dvisc	0.0007622	Paxs	439.65	Joback Method
dvisc	0.0013082	Paxs	396.30	Joback Method
dvisc	0.0025642	Paxs	352.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R30200&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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