

Octyl 2-bromobutanoate

Inchi:	InChI=1S/C12H23BrO2/c1-3-5-6-7-8-9-10-15-12(14)11(13)4-2/h11H,3-10H2,1-2H3
InchiKey:	GYJWHDFXRDXRGT-UHFFFAOYSA-N
Formula:	C12H23BrO2
SMILES:	CCCCCCCCOC(=O)C(Br)CC
Mol. weight [g/mol]:	279.21

Physical Properties

Property code	Value	Unit	Source
gf	-171.88	kJ/mol	Joback Method
hf	-514.76	kJ/mol	Joback Method
hfus	31.39	kJ/mol	Joback Method
hvap	57.51	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	4.064		Crippen Method
mcvol	204.880	ml/mol	McGowan Method
pc	1980.59	kPa	Joback Method
rinpol	1602.00		NIST Webbook
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tb	615.97	K	Joback Method
tc	800.98	K	Joback Method
tf	341.96	K	Joback Method
vc	0.787	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	512.85	J/mol×K	615.97	Joback Method
cpg	528.06	J/mol×K	646.81	Joback Method
cpg	542.55	J/mol×K	677.64	Joback Method
cpg	556.34	J/mol×K	708.48	Joback Method
cpg	569.46	J/mol×K	739.31	Joback Method
cpg	581.90	J/mol×K	770.15	Joback Method
cpg	593.71	J/mol×K	800.98	Joback Method
dvisc	0.0025939	Pa×s	341.96	Joback Method

dvisc	0.0012447	Pa×s	387.63	Joback Method
dvisc	0.0006973	Pa×s	433.30	Joback Method
dvisc	0.0004362	Pa×s	478.97	Joback Method
dvisc	0.0002961	Pa×s	524.63	Joback Method
dvisc	0.0002139	Pa×s	570.30	Joback Method
dvisc	0.0001621	Pa×s	615.97	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=R23522&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

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