

5-Bromovaleric acid, oct-3-en-2-yl ester

Inchi:	InChI=1S/C13H23BrO2/c1-3-4-5-6-9-12(2)16-13(15)10-7-8-11-14/h6,9,12H,3-5,7-8,10-11
InchiKey:	PIOWGKOAQGEQCT-RMKNXTFCSA-N
Formula:	C13H23BrO2
SMILES:	CCCCC=CC(C)OC(=O)CCCCBr
Mol. weight [g/mol]:	291.23

Physical Properties

Property code	Value	Unit	Source
gf	-83.24	kJ/mol	Joback Method
hf	-418.18	kJ/mol	Joback Method
hfus	34.18	kJ/mol	Joback Method
hvap	59.69	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	4.230		Crippen Method
mcvol	214.670	ml/mol	McGowan Method
pc	1905.24	kPa	Joback Method
rinpol	1744.60		NIST Webbook
rinpol	1744.60		NIST Webbook
tb	643.01	K	Joback Method
tc	832.93	K	Joback Method
tf	348.15	K	Joback Method
vc	0.824	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.70	J/molxK	643.01	Joback Method
cpg	558.98	J/molxK	674.66	Joback Method
cpg	573.49	J/molxK	706.32	Joback Method
cpg	587.24	J/molxK	737.97	Joback Method
cpg	600.29	J/molxK	769.62	Joback Method
cpg	612.65	J/molxK	801.27	Joback Method
cpg	624.35	J/molxK	832.93	Joback Method
dvisc	0.0022293	Paxs	348.15	Joback Method

dvisc	0.0010197	Paxs	397.29	Joback Method
dvisc	0.0005540	Paxs	446.44	Joback Method
dvisc	0.0003397	Paxs	495.58	Joback Method
dvisc	0.0002276	Paxs	544.72	Joback Method
dvisc	0.0001629	Paxs	593.87	Joback Method
dvisc	0.0001227	Paxs	643.01	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=U292566&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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/83-201-6/5-Bromovaleric-acid-oct-3-en-2-yl-ester.pdf>

Generated by Cheméo on 2024-04-26 16:52:03.857004465 +0000 UTC m=+16439572.777581777.

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