

Ethane, 2-bromo-1-ethoxy-1-(2-methylpropyloxy)

Inchi:	InChI=1S/C7H15BrO2/c1-4-9-7(5-8)10-6(2)3/h6-7H,4-5H2,1-3H3
InchiKey:	UECOPTDLODEQPZ-UHFFFAOYSA-N
Formula:	C7H15BrO2
SMILES:	CCOC(CBr)OC(C)C
Mol. weight [g/mol]:	211.10

Physical Properties

Property code	Value	Unit	Source
gf	-192.50	kJ/mol	Joback Method
hf	-436.48	kJ/mol	Joback Method
hfus	14.50	kJ/mol	Joback Method
hvap	41.66	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	2.169		Crippen Method
mcvol	138.730	ml/mol	McGowan Method
pc	2956.90	kPa	Joback Method
rinpol	1125.00		NIST Webbook
tb	469.68	K	Joback Method
tc	659.04	K	Joback Method
tf	242.91	K	Joback Method
vc	0.513	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.22	J/molxK	469.68	Joback Method
cpg	295.30	J/molxK	501.24	Joback Method
cpg	306.94	J/molxK	532.80	Joback Method
cpg	318.14	J/molxK	564.36	Joback Method
cpg	328.91	J/molxK	595.92	Joback Method
cpg	339.24	J/molxK	627.48	Joback Method
cpg	349.12	J/molxK	659.04	Joback Method
dvisc	0.0046997	Paxs	242.91	Joback Method
dvisc	0.0019640	Paxs	280.71	Joback Method

dvisc	0.0010095	Paxs	318.50	Joback Method
dvisc	0.0005976	Paxs	356.30	Joback Method
dvisc	0.0003912	Paxs	394.09	Joback Method
dvisc	0.0002758	Paxs	431.88	Joback Method
dvisc	0.0002057	Paxs	469.68	Joback Method

Sources

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=R91052&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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