

# Ethane, 1-bromo-2,2-dipropoxy-

Other names:	1,1'-[(2-bromoethylidene)bis(oxy)]bispropane
Inchi:	InChI=1S/C8H17BrO2/c1-3-5-10-8(7-9)11-6-4-2/h8H,3-7H2,1-2H3
InchiKey:	YZXXNXIKOGVZPP-UHFFFAOYSA-N
Formula:	C8H17BrO2
SMILES:	CCCOC(CBr)OCCC
Mol. weight [g/mol]:	225.12
CAS:	61365-93-3

## Physical Properties

Property code	Value	Unit	Source
gf	-181.64	kJ/mol	Joback Method
hf	-451.84	kJ/mol	Joback Method
hfus	20.61	kJ/mol	Joback Method
hvap	44.27	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.561		Crippen Method
mcvol	152.820	ml/mol	McGowan Method
pc	2648.83	kPa	Joback Method
tb	493.00	K	Joback Method
tc	676.37	K	Joback Method
tf	269.18	K	Joback Method
vc	0.576	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.92	J/molxK	493.00	Joback Method
cpg	338.73	J/molxK	523.56	Joback Method
cpg	351.08	J/molxK	554.12	Joback Method
cpg	362.96	J/molxK	584.68	Joback Method
cpg	374.37	J/molxK	615.24	Joback Method
cpg	385.32	J/molxK	645.81	Joback Method
cpg	395.80	J/molxK	676.37	Joback Method
dvisc	0.0030762	Paxs	269.18	Joback Method

dvisc	0.0014717	Paxs	306.48	Joback Method
dvisc	0.0008263	Paxs	343.79	Joback Method
dvisc	0.0005194	Paxs	381.09	Joback Method
dvisc	0.0003547	Paxs	418.39	Joback Method
dvisc	0.0002578	Paxs	455.70	Joback Method
dvisc	0.0001967	Paxs	493.00	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C61365933&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C61365933&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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