

1-Bromo-8-tetrahydropyranyloxyoctane

Other names:	2H-Pyran, 2-[(8-bromooctyl)oxy]tetrahydro-8-Bromooctyl tetrahydropyranyl ether 2-[(8-bromooctyl)oxy]tetrahydro-2H-pyran
Inchi:	InChI=1S/C13H25BrO2/c14-10-6-3-1-2-4-7-11-15-13-9-5-8-12-16-13/h13H,1-12H2
InchiKey:	JCRBYQZIJFWGOO-UHFFFAOYSA-N
Formula:	C13H25BrO2
SMILES:	BrCCCCCCCCOC1CCCCO1
Mol. weight [g/mol]:	293.24
CAS:	50816-20-1

Physical Properties

Property code	Value	Unit	Source
gf	-93.77	kJ/mol	Joback Method
hf	-495.22	kJ/mol	Joback Method
hfus	35.71	kJ/mol	Joback Method
hvap	58.32	kJ/mol	Joback Method
log10ws	-4.37		Crippen Method
logp	4.265		Crippen Method
mcvol	212.410	ml/mol	McGowan Method
pc	2032.72	kPa	Joback Method
tb	631.92	K	Joback Method
tc	831.92	K	Joback Method
tf	352.25	K	Joback Method
vc	0.797	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	566.10	J/molxK	631.92	Joback Method
cpg	585.00	J/molxK	665.25	Joback Method
cpg	602.86	J/molxK	698.59	Joback Method
cpg	619.72	J/molxK	731.92	Joback Method
cpg	635.61	J/molxK	765.26	Joback Method
cpg	650.54	J/molxK	798.59	Joback Method

cpg	664.56	J/mol×K	831.92	Joback Method
dvisc	0.0026778	Paxs	352.25	Joback Method
dvisc	0.0012516	Paxs	398.86	Joback Method
dvisc	0.0006859	Paxs	445.47	Joback Method
dvisc	0.0004213	Paxs	492.08	Joback Method
dvisc	0.0002815	Paxs	538.70	Joback Method
dvisc	0.0002006	Paxs	585.31	Joback Method
dvisc	0.0001503	Paxs	631.92	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50816201&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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