

Ethane, 2-bromo-1,1-diethoxy-

Other names:	Acetaldehyde, bromo-, diethyl acetal Bromoacetal Bromoacetaldehyde diethyl acetal Diethyl bromoacetaldehyde acetal 1-Bromo-2,2-diethoxyethane 1,1-Diethoxy-2-bromoethane 2-Bromoacetaldehyde diethyl acetal Bromoacetal Diethyl bromoacetal 2-Bromo-1,1-diethoxyethane 2,2-Diethoxyethyl bromide NSC 8036
Inchi:	InChI=1S/C6H13BrO2/c1-3-8-6(5-7)9-4-2/h6H,3-5H2,1-2H3
InchiKey:	LILXDMFJXYAKMK-UHFFFAOYSA-N
Formula:	C6H13BrO2
SMILES:	CCOC(CBr)OCC
Mol. weight [g/mol]:	197.07
CAS:	2032-35-1

Physical Properties

Property code	Value	Unit	Source
gf	-198.48	kJ/mol	Joback Method
hf	-410.56	kJ/mol	Joback Method
hfus	15.43	kJ/mol	Joback Method
hvap	39.82	kJ/mol	Joback Method
log10ws	-1.55		Crippen Method
logp	1.780		Crippen Method
mcvol	124.640	ml/mol	McGowan Method
pc	3261.58	kPa	Joback Method
rinpol	1005.00		NIST Webbook
rinpol	1005.00		NIST Webbook
tb	447.24	K	Joback Method
tc	634.34	K	Joback Method
tf	246.64	K	Joback Method
vc	0.464	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.32	J/molxK	447.24	Joback Method
cpg	252.85	J/molxK	478.42	Joback Method
cpg	263.04	J/molxK	509.61	Joback Method
cpg	272.87	J/molxK	540.79	Joback Method
cpg	282.36	J/molxK	571.97	Joback Method
cpg	291.49	J/molxK	603.16	Joback Method
cpg	300.26	J/molxK	634.34	Joback Method
dvisc	0.0032499	Paxs	246.64	Joback Method
dvisc	0.0016171	Paxs	280.07	Joback Method
dvisc	0.0009338	Paxs	313.51	Joback Method
dvisc	0.0005994	Paxs	346.94	Joback Method
dvisc	0.0004160	Paxs	380.37	Joback Method
dvisc	0.0003062	Paxs	413.81	Joback Method
dvisc	0.0002360	Paxs	447.24	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	339.50 ± 0.50	K	2.40	NIST Webbook
tbrp	339.70	K	2.40	NIST Webbook

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=C2032351&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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