

Hexanedioic acid, bis(2-ethoxyethyl) ester

Other names:	Adipic acid, bis(2-ethoxyethyl) ester Bis(2-ethoxyethyl) adipate Diethoxyethyl adipate Beta-ethoxyethyl adipate Bis(2-ethoxyethyl) hexanedioate
Inchi:	InChI=1S/C14H26O6/c1-3-17-9-11-19-13(15)7-5-6-8-14(16)20-12-10-18-4-2/h3-12H2,1-12H1
InchiKey:	NJEMMCIKSMMBDM-UHFFFAOYSA-N
Formula:	C14H26O6
SMILES:	CCOCCOC(=O)CCCCC(=O)OCCOCC
Mol. weight [g/mol]:	290.35
CAS:	109-44-4

Physical Properties

Property code	Value	Unit	Source
gf	-610.84	kJ/mol	Joback Method
hf	-1086.33	kJ/mol	Joback Method
hfus	39.97	kJ/mol	Joback Method
hvap	69.89	kJ/mol	Joback Method
log10ws	-1.58		Crippen Method
logp	1.706		Crippen Method
mcvol	234.740	ml/mol	McGowan Method
pc	1594.89	kPa	Joback Method
rinpol	1880.00		NIST Webbook
rinpol	1924.00		NIST Webbook
rinpol	1880.00		NIST Webbook
rinpol	1880.00		NIST Webbook
tb	717.14	K	Joback Method
tc	894.30	K	Joback Method
tf	436.32	K	Joback Method
vc	0.903	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	679.91	J/molxK	717.14	Joback Method
cpg	748.61	J/molxK	864.78	Joback Method
cpg	736.46	J/molxK	835.25	Joback Method
cpg	723.50	J/molxK	805.72	Joback Method
cpg	709.74	J/molxK	776.19	Joback Method
cpg	695.21	J/molxK	746.67	Joback Method
cpg	759.95	J/molxK	894.30	Joback Method
dvisc	0.0000702	Paxs	717.14	Joback Method
dvisc	0.0000905	Paxs	670.34	Joback Method
dvisc	0.0001212	Paxs	623.53	Joback Method
dvisc	0.0001702	Paxs	576.73	Joback Method
dvisc	0.0002538	Paxs	529.93	Joback Method
dvisc	0.0004090	Paxs	483.12	Joback Method
dvisc	0.0007301	Paxs	436.32	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C109444&Units=SI

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
mccvol:	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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