

Hexanedioic acid, bis[2-(2-butoxyethoxy)ethyl] ester

Other names:	Dibutoxyethoxyethyl adipate Adipic acid, bis(2-(2-butoxyethoxy)ethyl) ester TP-95 Wareflex bis(2-(2-butoxyethoxy)ethyl) adipate
Inchi:	InChI=1S/C22H42O8/c1-3-5-11-25-13-15-27-17-19-29-21(23)9-7-8-10-22(24)30-20-18-2
InchiKey:	SCABKEBYDRTODC-UHFFFAOYSA-N
Formula:	C22H42O8
SMILES:	CCCCOCCOCCOC(=O)CCCCC(=O)OCCOCCOCCCC
Mol. weight [g/mol]:	434.56
CAS:	141-17-3

Physical Properties

Property code	Value	Unit	Source
gf	-753.48	kJ/mol	Joback Method
hf	-1515.89	kJ/mol	Joback Method
hfus	63.06	kJ/mol	Joback Method
hvap	92.52	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	3.300		Crippen Method
mcvol	359.200	ml/mol	McGowan Method
pc	914.94	kPa	Joback Method
tb	945.02	K	Joback Method
tc	1162.57	K	Joback Method
tf	570.94	K	Joback Method
vc	1.387	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1217.42	J/mol×K	945.02	Joback Method
cpg	1235.04	J/mol×K	981.28	Joback Method
cpg	1250.68	J/mol×K	1017.54	Joback Method
cpg	1264.32	J/mol×K	1053.79	Joback Method

cpg	1275.92	J/mol×K	1090.05	Joback Method
cpg	1285.46	J/mol×K	1126.31	Joback Method
cpg	1292.91	J/mol×K	1162.57	Joback Method
dvisc	0.0001439	Pa×s	570.94	Joback Method
dvisc	0.0000773	Pa×s	633.29	Joback Method
dvisc	0.0000464	Pa×s	695.63	Joback Method
dvisc	0.0000303	Pa×s	757.98	Joback Method
dvisc	0.0000211	Pa×s	820.33	Joback Method
dvisc	0.0000155	Pa×s	882.67	Joback Method
dvisc	0.0000118	Pa×s	945.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C141173&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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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