DIBUTOXYETHOXY ETHYL ADIPATE

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]:	434.57

Physical Properties

Property code	Value	Unit	Source
af	1.2583		Cheméo Relay (1.0)
gf	-753.48	kJ/mol	Joback Method
hf	-1604.22	kJ/mol	Cheméo Relay (1.0)
hfus	63.06	kJ/mol	Joback Method
hvap	112.49	kJ/mol	Cheméo Relay (1.0)
ie	9.40	eV	Cheméo Relay (1.0)
log10ws	-2.97		Cheméo Relay (1.0)
logp	3.300		Crippen Method
mcvol	359.200	ml/mol	McGowan Method
pc	914.94	kPa	Joback Method
tb	673.56	K	Cheméo Relay (1.0)
tc	823.93	K	Cheméo Relay (1.0)
tf	228.05	K	Cheméo Relay (1.0)
vc	1.376	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1217.42	J/mol×K	945.02	Joback Method
cpg	1292.91	J/mol×K	1162.57	Joback Method
cpg	1285.46	J/mol×K	1126.31	Joback Method

cpg	1275.92	J/mol×K	1090.05	Joback Method
cpg	1264.32	J/mol×K	1053.79	Joback Method
cpg	1250.68	J/mol×K	1017.54	Joback Method
cpg	1235.04	J/mol×K	981.28	Joback Method
dvisc	0.0000303	Pa×s	757.98	Joback Method
dvisc	0.0000118	Pa×s	945.02	Joback Method
dvisc	0.0000155	Pa×s	882.67	Joback Method
dvisc	0.0000211	Pa×s	820.33	Joback Method
dvisc	0.0001439	Pa×s	570.94	Joback Method
dvisc	0.0000464	Pa×s	695.63	Joback Method
dvisc	0.0000773	Pa×s	633.29	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C141173&Units=SI

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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