

2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]e

Inchi: InChI=1S/C15H32O8/c1-17-4-5-19-8-9-21-12-13-23-15-14-22-11-10-20-7-6-18-3-2-16/h1-17
InchiKey: AGWKUHGLWHMYTG-UHFFFAOYSA-N
Formula: C15H32O8
SMILES: COCCOCCOCCOCCOCCOCCOCCO
Mol. weight [g/mol]: 340.41
CAS: 4437-01-8

Physical Properties

Property code	Value	Unit	Source
gf	-796.40	kJ/mol	Joback Method
hf	-1430.70	kJ/mol	Joback Method
hfus	47.01	kJ/mol	Joback Method
hvap	82.53	kJ/mol	Joback Method
log10ws	1.02		Crippen Method
logp	-0.275		Crippen Method
mvol	269.170	ml/mol	McGowan Method
pc	1387.11	kPa	Joback Method
rinpol	2336.00		NIST Webbook
rinpol	2347.40		NIST Webbook
tb	791.72	K	Joback Method
tc	969.46	K	Joback Method
tf	475.24	K	Joback Method
vc	1.020	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	849.87	J/molxK	791.72	Joback Method
cpg	920.37	J/molxK	939.84	Joback Method
cpg	908.34	J/molxK	910.21	Joback Method
cpg	895.25	J/molxK	880.59	Joback Method
cpg	881.12	J/molxK	850.97	Joback Method
cpg	865.98	J/molxK	821.34	Joback Method
cpg	931.29	J/molxK	969.46	Joback Method

dvisc	0.0000050	Paxs	791.72	Joback Method
dvisc	0.0000073	Paxs	738.97	Joback Method
dvisc	0.0000115	Paxs	686.23	Joback Method
dvisc	0.0000194	Paxs	633.48	Joback Method
dvisc	0.0000358	Paxs	580.73	Joback Method
dvisc	0.0000751	Paxs	527.99	Joback Method
dvisc	0.0001852	Paxs	475.24	Joback Method

Sources

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=C4437018&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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