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

Inchi: InChI=1S/C21H44O11/c1-23-4-5-25-8-9-27-12-13-29-16-17-31-20-21-32-19-18-30-15-14
InchiKey: YMBLPWKGRIGDBP-UHFFFAOYSA-N
Formula: C21H44O11
SMILES: COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCO
Mol. weight [g/mol]: 472.57
CAS: 27425-92-9

Physical Properties

Property code	Value	Unit	Source
gf	-1060.88	kJ/mol	Joback Method
hf	-1951.20	kJ/mol	Joback Method
hfus	66.11	kJ/mol	Joback Method
hvap	103.12	kJ/mol	Joback Method
log10ws	1.25		Crippen Method
logp	-0.225		Crippen Method
mcvol	371.320	ml/mol	McGowan Method
pc	911.63	kPa	Joback Method
rinpol	3180.00		NIST Webbook
rinpol	3180.00		NIST Webbook
tb	996.26	K	Joback Method
tc	1255.06	K	Joback Method
tf	609.55	K	Joback Method
vc	1.411	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1304.81	J/mol×K	996.26	Joback Method
cpg	1351.38	J/mol×K	1211.93	Joback Method
cpg	1349.88	J/mol×K	1168.79	Joback Method
cpg	1344.33	J/mol×K	1125.66	Joback Method
cpg	1334.87	J/mol×K	1082.53	Joback Method
cpg	1321.65	J/mol×K	1039.39	Joback Method
cpg	1348.68	J/mol×K	1255.06	Joback Method

dvisc	0.0000006	Pa×s	996.26	Joback Method
dvisc	0.0000008	Pa×s	931.81	Joback Method
dvisc	0.0000012	Pa×s	867.36	Joback Method
dvisc	0.0000019	Pa×s	802.90	Joback Method
dvisc	0.0000034	Pa×s	738.45	Joback Method
dvisc	0.0000068	Pa×s	674.00	Joback Method
dvisc	0.0000154	Pa×s	609.55	Joback Method

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=C27425929&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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