

3-[3-(3-Methoxypropoxy)propoxy]-1-propanol

Other names:	4,8,12-trioxatridecan-1-ol
Inchi:	InChI=1S/C10H22O4/c1-12-6-3-8-14-10-4-9-13-7-2-5-11/h11H,2-10H2,1H3
InchiKey:	GRTBNOKQBKPUGM-UHFFFAOYSA-N
Formula:	C10H22O4
SMILES:	COCCCOCCCOCCCO
Mol. weight [g/mol]:	206.28
CAS:	13133-29-4

Physical Properties

Property code	Value	Unit	Source
gf	-418.50	kJ/mol	Joback Method
hf	-798.62	kJ/mol	Joback Method
hfus	29.31	kJ/mol	Joback Method
hvap	61.76	kJ/mol	Joback Method
log10ws	-0.53		Crippen Method
logp	0.829		Crippen Method
mcvol	175.240	ml/mol	McGowan Method
pc	2189.73	kPa	Joback Method
tb	587.64	K	Joback Method
tc	747.06	K	Joback Method
tf	329.97	K	Joback Method
vc	0.668	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.02	J/mol×K	587.64	Joback Method
cpg	472.93	J/mol×K	614.21	Joback Method
cpg	485.41	J/mol×K	640.78	Joback Method
cpg	497.46	J/mol×K	667.35	Joback Method
cpg	509.07	J/mol×K	693.92	Joback Method
cpg	520.24	J/mol×K	720.49	Joback Method
cpg	530.95	J/mol×K	747.06	Joback Method
dvisc	0.0041611	Pa×s	329.97	Joback Method

dvisc	0.0012980	Pa×s	372.91	Joback Method
dvisc	0.0005150	Pa×s	415.86	Joback Method
dvisc	0.0002430	Pa×s	458.80	Joback Method
dvisc	0.0001304	Pa×s	501.75	Joback Method
dvisc	0.0000772	Pa×s	544.69	Joback Method
dvisc	0.0000493	Pa×s	587.64	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13133294&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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