

6-Tridecanol

Other names:	tridecan-6-ol
Inchi:	InChI=1S/C13H28O/c1-3-5-7-8-10-12-13(14)11-9-6-4-2/h13-14H,3-12H2,1-2H3
InchiKey:	HAIXKKLECRWLIX-UHFFFAOYSA-N
Formula:	C13H28O
SMILES:	CCCCCCCC(O)CCCC
Mol. weight [g/mol]:	200.36
CAS:	5770-03-6

Physical Properties

Property code	Value	Unit	Source
gf	-80.68	kJ/mol	Joback Method
hf	-469.16	kJ/mol	Joback Method
hfus	29.99	kJ/mol	Joback Method
hvap	60.82	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.288		Crippen Method
mcvol	199.900	ml/mol	McGowan Method
pc	1786.37	kPa	Joback Method
rinpol	1570.00		NIST Webbook
rinpol	1570.00		NIST Webbook
ripol	1865.00		NIST Webbook
ripol	1865.00		NIST Webbook
tb	588.58	K	Joback Method
tc	748.59	K	Joback Method
tf	282.09	K	Joback Method
vc	0.776	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	530.09	J/mol×K	588.58	Joback Method
cpg	601.64	J/mol×K	721.92	Joback Method
cpg	588.50	J/mol×K	695.25	Joback Method
cpg	574.79	J/mol×K	668.59	Joback Method

cpg	560.50	J/mol×K	641.92	Joback Method
cpg	545.60	J/mol×K	615.25	Joback Method
cpg	614.23	J/mol×K	748.59	Joback Method
dvisc	0.0000673	Pa×s	588.58	Joback Method
dvisc	0.0001145	Pa×s	537.50	Joback Method
dvisc	0.0002178	Pa×s	486.42	Joback Method
dvisc	0.0004818	Pa×s	435.33	Joback Method
dvisc	0.0013165	Pa×s	384.25	Joback Method
dvisc	0.0048963	Pa×s	333.17	Joback Method
dvisc	0.0293029	Pa×s	282.09	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.56774e+01
Coeff. B	-4.99511e+03
Coeff. C	-8.95880e+01
Temperature range (K), min.	414.16
Temperature range (K), max.	571.46

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=C5770036&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
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
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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