

cis-2-Propylcyclohexanol

Inchi:	InChI=1S/C9H18O/c1-2-5-8-6-3-4-7-9(8)10/h8-10H,2-7H2,1H3/t8-,9+/m1/s1
InchiKey:	VZBNUCDUQJCIDP-BDAKNGLRSA-N
Formula:	C9H18O
SMILES:	CCCC1CCCCC1O
Mol. weight [g/mol]:	142.24
CAS:	5857-86-3

Physical Properties

Property code	Value	Unit	Source
gf	-95.18	kJ/mol	Joback Method
hf	-347.34	kJ/mol	Joback Method
hfus	16.06	kJ/mol	Joback Method
hvap	52.43	kJ/mol	Joback Method
log10ws	-2.62		Crippen Method
logp	2.338		Crippen Method
mcvol	132.680	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
rinpol	1137.00		NIST Webbook
tb	512.38	K	Joback Method
tc	700.47	K	Joback Method
tf	255.15	K	Joback Method
vc	0.490	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.51	J/mol×K	512.38	Joback Method
cpg	394.18	J/mol×K	669.12	Joback Method
cpg	381.07	J/mol×K	637.77	Joback Method
cpg	367.27	J/mol×K	606.42	Joback Method
cpg	352.75	J/mol×K	575.08	Joback Method
cpg	337.50	J/mol×K	543.73	Joback Method
cpg	406.60	J/mol×K	700.47	Joback Method
dvisc	0.0001611	Pa×s	512.38	Joback Method

dvisc	0.0002632	Pa×s	469.51	Joback Method
dvisc	0.0004745	Pa×s	426.64	Joback Method
dvisc	0.0009760	Pa×s	383.76	Joback Method
dvisc	0.0024066	Pa×s	340.89	Joback Method
dvisc	0.0076936	Pa×s	298.02	Joback Method
dvisc	0.0363477	Pa×s	255.15	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.52505e+01
Coeff. B	-4.35954e+03
Coeff. C	-7.29640e+01
Temperature range (K), min.	364.32
Temperature range (K), max.	511.59

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R578633&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
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp _g :	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g _f :	Standard Gibbs free energy of formation
h _f :	Enthalpy of formation at standard conditions
h _{fus} :	Enthalpy of fusion at standard conditions
h _{vap} :	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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