1-Triacontanol

Other names:	Melissyl alcohol
	Myricyl alcohol
	Triacontanol-1
	Triacontyl alcohol
	n-Triacontanol
	triacontan-1-ol
Inchi:	InChI=1S/C30H62O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-
InchiKey:	REZQBEBOWJAQKS-UHFFFAOYSA-N
Formula:	C30H62O
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCO
Mol. weight [g/mol]:	438.81
CAS:	593-50-0

Physical Properties

Property code	Value	Unit	Source
gf	64.90	kJ/mol	Joback Method
hf	-814.76	kJ/mol	Joback Method
hfus	77.54	kJ/mol	Joback Method
hvap	99.05	kJ/mol	Joback Method
log10ws	-11.64		Crippen Method
logp	10.921		Crippen Method
mcvol	439.430	ml/mol	McGowan Method
pc	623.13	kPa	Joback Method
rinpol	3306.00		NIST Webbook
rinpol	3306.00		NIST Webbook
tb	977.98	K	Joback Method
tc	1233.03	K	Joback Method
tf	488.68	K	Joback Method
vc	1.734	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1570.53	J/mol×K	977.98	Joback Method

cpg	1599.37	J/mol×K	1020.49	Joback Method
cpg	1626.22	J/mol×K	1063.00	Joback Method
cpg	1651.25	J/mol×K	1105.51	Joback Method
cpg	1674.62	J/mol×K	1148.01	Joback Method
cpg	1696.50	J/mol×K	1190.52	Joback Method
cpg	1717.04	J/mol×K	1233.03	Joback Method
dvisc	0.0004393	Pa×s	488.68	Joback Method
dvisc	0.0001061	Pa×s	570.23	Joback Method
dvisc	0.0000366	Pa×s	651.78	Joback Method
dvisc	0.0000160	Pa×s	733.33	Joback Method
dvisc	0.0000082	Pa×s	814.88	Joback Method
dvisc	0.0000048	Pa×s	896.43	Joback Method
dvisc	0.0000030	Pa×s	977.98	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.53922e+01
Coeff. B	-6.53503e+03
Coeff. C	-1.47148e+02
Temperature range (K), min.	579.80
Temperature range (K), max.	795.42

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=C593500&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

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