

2-Ethylcyclohexanol,c&t

Other names:	2-Ethylcyclohexanol 2-Ethylcyclohexanol(c,t) Cyclohexanol, 2-ethyl-
Inchi:	InChI=1S/C8H16O/c1-2-7-5-3-4-6-8(7)9/h7-9H,2-6H2,1H3
InchiKey:	CFYUBZHJDXXXQE-UHFFFAOYSA-N
Formula:	C8H16O
SMILES:	CCC1CCCCC1O
Mol. weight [g/mol]:	128.21
CAS:	3760-20-1

Physical Properties

Property code	Value	Unit	Source
gf	-103.60	kJ/mol	Joback Method
hf	-326.70	kJ/mol	Joback Method
hfus	13.47	kJ/mol	Joback Method
hvap	50.20	kJ/mol	Joback Method
log10ws	-2.20		Crippen Method
logp	1.948		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	3372.36	kPa	Joback Method
tb	489.50	K	Joback Method
tc	679.78	K	Joback Method
tf	243.88	K	Joback Method
vc	0.434	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.40	J/mol×K	489.50	Joback Method
cpg	290.58	J/mol×K	521.21	Joback Method
cpg	305.05	J/mol×K	552.93	Joback Method
cpg	318.84	J/mol×K	584.64	Joback Method
cpg	331.95	J/mol×K	616.35	Joback Method
cpg	344.40	J/mol×K	648.07	Joback Method

cpg	356.21	J/mol×K	679.78	Joback Method
dvisc	0.0447466	Pa×s	243.88	Joback Method
dvisc	0.0093317	Pa×s	284.82	Joback Method
dvisc	0.0028858	Pa×s	325.75	Joback Method
dvisc	0.0011598	Pa×s	366.69	Joback Method
dvisc	0.0005598	Pa×s	407.63	Joback Method
dvisc	0.0003086	Pa×s	448.56	Joback Method
dvisc	0.0001879	Pa×s	489.50	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.38077e+01
Coeff. B	-3.66385e+03
Coeff. C	-6.21190e+01
Temperature range (K), min.	333.11
Temperature range (K), max.	493.35

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=C3760201&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/47-585-1/2-Ethylcyclohexanol-candt.pdf>

Generated by Cheméo on 2025-12-05 20:12:57.846678315 +0000 UTC m=+4713775.376718985.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.