

Cycloheptadecanol

Other names:	Civetol, dihydro-
Inchi:	InChI=1S/C17H34O/c18-17-15-13-11-9-7-5-3-1-2-4-6-8-10-12-14-16-17/h17-18H,1-16H2
InchiKey:	ZRLAJSMFDYQOTR-UHFFFAOYSA-N
Formula:	C17H34O
SMILES:	OC1CCCCCCCCCCCCCCC1
Mol. weight [g/mol]:	254.45
CAS:	4429-77-0

Physical Properties

Property code	Value	Unit	Source
gf	-153.21	kJ/mol	Joback Method
hf	-559.88	kJ/mol	Joback Method
hfus	12.61	kJ/mol	Joback Method
hvap	72.44	kJ/mol	Joback Method
log10ws	-6.21		Crippen Method
logp	5.603		Crippen Method
mcvol	245.400	ml/mol	McGowan Method
pc	1927.05	kPa	Joback Method
tb	747.06	K	Joback Method
tc	981.66	K	Joback Method
tf	310.83	K	Joback Method
vc	0.852	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	788.33	J/mol×K	747.06	Joback Method
cpg	899.07	J/mol×K	942.56	Joback Method
cpg	881.87	J/mol×K	903.46	Joback Method
cpg	862.15	J/mol×K	864.36	Joback Method
cpg	839.96	J/mol×K	825.26	Joback Method
cpg	815.34	J/mol×K	786.16	Joback Method
cpg	913.72	J/mol×K	981.66	Joback Method
dvisc	0.0000008	Paxs	747.06	Joback Method

dvisc	0.0000019	Paxs	674.36	Joback Method
dvisc	0.0000056	Paxs	601.65	Joback Method
dvisc	0.0000225	Paxs	528.94	Joback Method
dvisc	0.0001417	Paxs	456.24	Joback Method
dvisc	0.0017879	Paxs	383.53	Joback Method
dvisc	0.0738836	Paxs	310.83	Joback Method

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=C4429770&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	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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