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: OC1CCCCCCCCCCCCCCCC1
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	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	788.33	J/mol×K	747.06	Joback Method
cpg	815.34	J/mol×K	786.16	Joback Method
cpg	839.96	J/mol×K	825.26	Joback Method
cpg	862.15	J/mol×K	864.36	Joback Method
cpg	881.87	J/mol×K	903.46	Joback Method
cpg	899.07	J/mol×K	942.56	Joback Method
cpg	913.72	J/mol×K	981.66	Joback Method
dvisc	0.0738836	Pa×s	310.83	Joback Method

dvisc	0.0017879	Pa×s	383.53	Joback Method
dvisc	0.0001417	Pa×s	456.24	Joback Method
dvisc	0.0000225	Pa×s	528.94	Joback Method
dvisc	0.0000056	Pa×s	601.65	Joback Method
dvisc	0.0000019	Pa×s	674.36	Joback Method
dvisc	0.0000008	Pa×s	747.06	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4429770&Units=SI

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