

Hexadecyl isopropyl ether

Inchi:	InChI=1S/C19H40O/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-20-19(2)3/h19H,4-18H2
InchiKey:	CEXOLTXCCQUWDT-UHFFFAOYSA-N
Formula:	C19H40O
SMILES:	CCCCCCCCCCCCCCCCOC(C)C
Mol. weight [g/mol]:	284.52

Physical Properties

Property code	Value	Unit	Source
gf	1.66	kJ/mol	Joback Method
hf	-572.99	kJ/mol	Joback Method
hfus	42.63	kJ/mol	Joback Method
hvap	59.91	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	6.893		Crippen Method
mcvol	284.440	ml/mol	McGowan Method
pc	1074.28	kPa	Joback Method
rinsol	1928.00		NIST Webbook
tb	656.10	K	Joback Method
tc	818.53	K	Joback Method
tf	311.12	K	Joback Method
vc	1.111	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	815.43	J/molxK	656.10	Joback Method
cpg	835.96	J/molxK	683.17	Joback Method
cpg	855.64	J/molxK	710.24	Joback Method
cpg	874.50	J/molxK	737.32	Joback Method
cpg	892.56	J/molxK	764.39	Joback Method
cpg	909.83	J/molxK	791.46	Joback Method
cpg	926.34	J/molxK	818.53	Joback Method
dvisc	0.0035884	Paxs	311.12	Joback Method
dvisc	0.0011560	Paxs	368.62	Joback Method

dvisc	0.0005056	Paxs	426.11	Joback Method
dvisc	0.0002691	Paxs	483.61	Joback Method
dvisc	0.0001638	Paxs	541.11	Joback Method
dvisc	0.0001097	Paxs	598.60	Joback Method
dvisc	0.0000788	Paxs	656.10	Joback Method

Sources

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=U406341&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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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