

cis-8-Methoxy-1,2,3,4,4a,5,6,8a-octahydronaphtha

Inchi:	InChI=1S/C11H18O/c1-12-11-8-4-6-9-5-2-3-7-10(9)11/h8-10H,2-7H2,1H3/t9-,10-/m1/s1
InchiKey:	BTLRDSPISZYIIT-NXEZZACHSA-N
Formula:	C11H18O
SMILES:	COC1=CCCC2CCCCC12
Mol. weight [g/mol]:	166.26
CAS:	101555-41-3

Physical Properties

Property code	Value	Unit	Source
gf	30.17	kJ/mol	Joback Method
hf	-235.32	kJ/mol	Joback Method
hfus	14.14	kJ/mol	Joback Method
hvap	43.96	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.117		Crippen Method
mcvol	145.700	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
tb	508.20	K	Joback Method
tc	728.09	K	Joback Method
tf	271.04	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.79	J/molxK	508.20	Joback Method
cpg	438.66	J/molxK	691.44	Joback Method
cpg	422.49	J/molxK	654.80	Joback Method
cpg	405.25	J/molxK	618.15	Joback Method
cpg	386.91	J/molxK	581.50	Joback Method
cpg	367.44	J/molxK	544.85	Joback Method
cpg	453.80	J/molxK	728.09	Joback Method
dvisc	0.0003288	Paxs	508.20	Joback Method
dvisc	0.0003974	Paxs	468.67	Joback Method

dvisc	0.0004975	Paxs	429.15	Joback Method
dvisc	0.0006519	Paxs	389.62	Joback Method
dvisc	0.0009079	Paxs	350.09	Joback Method
dvisc	0.0013757	Paxs	310.57	Joback Method
dvisc	0.0023530	Paxs	271.04	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C101555413&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

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