

Eicosen-1-ol, cis-9-

Other names:	(Z)-Icos-9-en-1-ol
Inchi:	InChI=1S/C20H40O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21/h11-12,21
InchiKey:	DJYWKXYRGAMLRE-QXMHVHEDSA-N
Formula:	C20H40O
SMILES:	CCCCCCCCCCC=CCCCCCCCCO
Mol. weight [g/mol]:	296.53
CAS:	112248-30-3

Physical Properties

Property code	Value	Unit	Source
gf	60.92	kJ/mol	Joback Method
hf	-491.14	kJ/mol	Joback Method
hfus	51.85	kJ/mol	Joback Method
hvap	76.75	kJ/mol	Joback Method
log10ws	-7.31		Crippen Method
logp	6.796		Crippen Method
mcvol	294.230	ml/mol	McGowan Method
pc	1115.57	kPa	Joback Method
rinpol	2261.10		NIST Webbook
tb	753.34	K	Joback Method
tc	924.82	K	Joback Method
tf	370.90	K	Joback Method
vc	1.155	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	903.37	J/molxK	753.34	Joback Method
cpg	921.97	J/molxK	781.92	Joback Method
cpg	939.74	J/molxK	810.50	Joback Method
cpg	956.70	J/molxK	839.08	Joback Method
cpg	972.91	J/molxK	867.66	Joback Method
cpg	988.40	J/molxK	896.24	Joback Method
cpg	1003.21	J/molxK	924.82	Joback Method

dvisc	0.0034608	Paxs	370.90	Joback Method
dvisc	0.0007435	Paxs	434.64	Joback Method
dvisc	0.0002367	Paxs	498.38	Joback Method
dvisc	0.0000977	Paxs	562.12	Joback Method
dvisc	0.0000483	Paxs	625.86	Joback Method
dvisc	0.0000272	Paxs	689.60	Joback Method
dvisc	0.0000169	Paxs	753.34	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C112248303&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
mvol:	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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