

«alpha»-Cedr-8(15)-en-9-al

Inchi:	InChI=1S/C15H24O/c1-9-5-6-13-14(3,4)11-7-15(9,13)8-12(16)10(11)2/h9,11-13,16H,2,5
InchiKey:	DJYWGTBEZVORGE-CVARFHGKSA-N
Formula:	C15H24O
SMILES:	<chem>C=C1C(O)CC23CC1C(C)(C)C2CCC3C</chem>
Mol. weight [g/mol]:	220.35

Physical Properties

Property code	Value	Unit	Source
gf	115.62	kJ/mol	Joback Method
hf	-245.38	kJ/mol	Joback Method
hfus	18.36	kJ/mol	Joback Method
hvap	62.68	kJ/mol	Joback Method
log10ws	-3.81		Crippen Method
logp	3.386		Crippen Method
mvol	191.200	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
rinpol	1643.00		NIST Webbook
tb	649.17	K	Joback Method
tc	856.86	K	Joback Method
tf	415.17	K	Joback Method
vc	0.727	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.53	J/mol×K	649.17	Joback Method
cpg	594.60	J/mol×K	683.79	Joback Method
cpg	612.82	J/mol×K	718.40	Joback Method
cpg	630.40	J/mol×K	753.02	Joback Method
cpg	647.59	J/mol×K	787.63	Joback Method
cpg	664.58	J/mol×K	822.25	Joback Method
cpg	681.62	J/mol×K	856.86	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=R577492&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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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