

Acorenol isomer

Inchi:	InChI=1S/C15H26O/c1-11-7-9-15(10-8-11)12(2)5-6-13(15)14(3,4)16/h7,12-13,16H,5-6,8
InchiKey:	XDVDHFJMCJWDPI-ILWWEHDPSA-N
Formula:	C15H26O
SMILES:	CC1=CCC2(CC1)C(C)CCC2C(C)(C)O
Mol. weight [g/mol]:	222.37

Physical Properties

Property code	Value	Unit	Source
gf	21.67	kJ/mol	Joback Method
hf	-351.74	kJ/mol	Joback Method
hfus	14.76	kJ/mol	Joback Method
hvap	64.38	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.920		Crippen Method
mcvol	202.060	ml/mol	McGowan Method
pc	2155.30	kPa	Joback Method
rinpol	1659.00		NIST Webbook
rinpol	1659.00		NIST Webbook
ripol	2191.00		NIST Webbook
ripol	2191.00		NIST Webbook
tb	661.82	K	Joback Method
tc	874.07	K	Joback Method
tf	376.79	K	Joback Method
vc	0.749	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	598.13	J/molxK	661.82	Joback Method
cpg	618.08	J/molxK	697.19	Joback Method
cpg	636.92	J/molxK	732.57	Joback Method
cpg	654.81	J/molxK	767.94	Joback Method
cpg	671.91	J/molxK	803.32	Joback Method
cpg	688.38	J/molxK	838.69	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=R613499&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/76-481-4/Acorenol-isomer.pdf>

Generated by Cheméo on 2024-04-19 22:44:49.111037961 +0000 UTC m=+15855938.031615276.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.