(2E,4S,7E)-4-Isopropyl-1,7-dimethylcyclodeca-2,7-

Other names: Germacrene D-4-ol
2,7-Cyclodecadien-1-ol, 1,7-dimethyl-4-(1-methylethyl)-, (2E,4S,7E)-
Germacren D-4-ol
Germacrene-«delta»-4-ol
D-Germacren-4-ol
Inchi: InChI=1S/C15H26O/c1-12(2)14-8-7-13(3)6-5-10-15(4,16)11-9-14/h6,9,11-12,14,16H,5,7-
InchiKey: RHCTXHCNRLCYBN-BMCYRRRCSA-N
Formula: C15H26O
SMILES: CC1=CCCC(C)(O)C=CC(C(C)C)CC1
Mol. weight [g/mol]: 222.37
CAS: 198991-79-6

Physical Properties

Property code	Value	Unit	Source
gf	-50.70	kJ/mol	Joback Method
hf	-381.77	kJ/mol	Joback Method
hfus	15.43	kJ/mol	Joback Method
hvap	66.18	kJ/mol	Joback Method
log10ws	-4.60		Crippen Method
logp	4.086		Crippen Method
mcvol	208.620	ml/mol	McGowan Method
pc	2096.50	kPa	Joback Method
rinpol	1566.00		NIST Webbook
rinpol	1557.00		NIST Webbook
rinpol	1577.00		NIST Webbook
rinpol	1576.00		NIST Webbook
rinpol	1574.00		NIST Webbook
rinpol	1571.00		NIST Webbook
rinpol	1557.00		NIST Webbook
rinpol	1564.00		NIST Webbook
rinpol	1568.00		NIST Webbook
rinpol	1574.00		NIST Webbook
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ripol	2048.00	NIST Webbook
ripol	2015.00	NIST Webbook
ripol	2044.00	NIST Webbook
ripol	2049.00	NIST Webbook

ripol	2054.00		NIST Webbook
ripol	2041.00		NIST Webbook
ripol	2057.00		NIST Webbook
ripol	2035.00		NIST Webbook
ripol	2044.00		NIST Webbook
ripol	2018.00		NIST Webbook
tb	669.84	K	Joback Method
tc	882.46	K	Joback Method
tf	331.63	K	Joback Method
vc	0.758	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.33	J/mol×K	669.84	Joback Method
cpg	615.86	J/mol×K	705.28	Joback Method
cpg	635.31	J/mol×K	740.71	Joback Method
cpg	653.77	J/mol×K	776.15	Joback Method
cpg	671.33	J/mol×K	811.58	Joback Method
cpg	688.06	J/mol×K	847.02	Joback Method
cpg	704.06	J/mol×K	882.46	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C198991796&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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
mcvol:	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