Muurola-4(15),5-diene

Inchi: InChI=1S/C15H24/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h9-10,12-14H,3,5-8H2,1-
InchiKey: RNDFUOKDULDZPR-MELADBBJSA-N
Formula: C15H24
SMILES: C=C1C=C2C(C(C)C)CCC(C)C2CC1
Mol. weight [g/mol]: 204.35

Physical Properties

Property code	Value	Unit	Source
gf	211.78	kJ/mol	Joback Method
hf	-127.04	kJ/mol	Joback Method
hfus	19.70	kJ/mol	Joback Method
hvap	49.91	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.581		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	1918.62	kPa	Joback Method
rinpol	1467.00		NIST Webbook
rinpol	1468.00		NIST Webbook
tb	571.35	K	Joback Method
tc	785.53	K	Joback Method
tf	288.33	K	Joback Method
vc	0.721	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.64	J/mol×K	571.35	Joback Method
cpg	524.63	J/mol×K	607.05	Joback Method
cpg	546.31	J/mol×K	642.74	Joback Method
cpg	566.71	J/mol×K	678.44	Joback Method
cpg	585.88	J/mol×K	714.14	Joback Method
cpg	603.88	J/mol×K	749.83	Joback Method
cpg	620.74	J/mol×K	785.53	Joback Method
dvisc	0.0022043	Pa×s	288.33	Joback Method

dvisc	0.0013305	Pa×s	335.50	Joback Method
dvisc	0.0009095	Pa×s	382.67	Joback Method
dvisc	0.0006759	Pa×s	429.84	Joback Method
dvisc	0.0005326	Pa×s	477.01	Joback Method
dvisc	0.0004381	Pa×s	524.18	Joback Method
dvisc	0.0003722	Pa×s	571.35	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R620898&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume