cis-Muurola-4(14),5-diene

Other names:	Cis-4(14),5-muuroladiene
	Z-Muurola-4(14),5-diene
	Muurola-4,14-5-Diene Cis
	(Z)-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-UHFFFAOYSA-N
Formula:	C15H24
SMILES:	C=C1C=C2C(C(C)C)CCC(C)C2CC1
Mol. weight [g/mol]:	204.35
CAS:	157477-72-0

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	1445.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1432.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1455.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1463.00		NIST Webbook
rinpol	1463.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1464.00		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1448.00		NIST Webbook
rinpol	1460.00		NIST Webbook

rinpol	1462.00	NIST Webbook
rinpol	1460.00	NIST Webbook
rinpol	1432.00	NIST Webbook
rinpol	1459.00	NIST Webbook
rinpol	1459.00	NIST Webbook
rinpol	1460.00	NIST Webbook
rinpol	1469.80	NIST Webbook
rinpol	1478.00	NIST Webbook
rinpol	1467.00	NIST Webbook
rinpol	1462.00	NIST Webbook
rinpol	1472.00	NIST Webbook
rinpol	1484.00	NIST Webbook
rinpol	1461.00	NIST Webbook
rinpol	1484.00	NIST Webbook
rinpol	1473.00	NIST Webbook
rinpol	1472.00	NIST Webbook
rinpol	1455.00	NIST Webbook
rinpol	1467.00	NIST Webbook
rinpol	1484.00	NIST Webbook
rinpol	1469.00	NIST Webbook
rinpol	1465.00	NIST Webbook
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rinpol	1459.00	NIST Webbook
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rinpol	1454.00	NIST Webbook
rinpol	1438.00	NIST Webbook
rinpol	1450.00	NIST Webbook
rinpol	1445.00	NIST Webbook
rinpol	1467.00	NIST Webbook
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rinpol	1438.00	NIST Webbook
rinpol	1462.00	NIST Webbook
rinpol	1478.00	NIST Webbook
rinpol	1466.00	NIST Webbook
rinpol	1470.00	NIST Webbook
rinpol	1467.00	NIST Webbook
rinpol	1467.00	NIST Webbook
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rinpol	1460.00	NIST Webbook

rinpol	1467.00		NIST Webbook
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rinpol	1480.00		NIST Webbook
rinpol	1454.00		NIST Webbook
rinpol	1466.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1454.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1467.00		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	603.88	J/mol×K	749.83	Joback Method
cpg	585.88	J/mol×K	714.14	Joback Method
cpg	566.71	J/mol×K	678.44	Joback Method
cpg	546.31	J/mol×K	642.74	Joback Method
cpg	524.63	J/mol×K	607.05	Joback Method
cpg	620.74	J/mol×K	785.53	Joback Method
dvisc	0.0003722	Pa×s	571.35	Joback Method
dvisc	0.0004381	Pa×s	524.18	Joback Method
dvisc	0.0005326	Pa×s	477.01	Joback Method
dvisc	0.0006759	Pa×s	429.84	Joback Method
dvisc	0.0009095	Pa×s	382.67	Joback Method
dvisc	0.0013305	Pa×s	335.50	Joback Method
dvisc	0.0022043	Pa×s	288.33	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C157477720&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