

«gamma»-Muurolene

Other names:

Naphthalene,
1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-
1-isopropyl-7-methyl-4-methylene-1,2,3,4,4a,5,6,8a-octahydronaphthalene-,
(1«alpha»,4a«alpha»,8a«alpha»)-
(1R,4aR,8aS)-1-isopropyl-7-methyl-4-methylene-1,2,3,4,4a,5,6,8a-octahydronaphthalene
[1«alpha»,4a«alpha»,8a«alpha»]-Naphthalene,1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-
(./-.)-«gamma»-Muurolene

Inchi:

InChI=1S/C15H24/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h9-10,13-15H,4-8H2,1-3H

InchiKey:

WRHGORWNJGOVQY-ZNMIVQPWSA-N

Formula:

C15H24

SMILES:

C=C1CCC(C(C)C)C2C=C(C)CCC12

Mol. weight [g/mol]:

204.35

CAS:

30021-74-0

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
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ripol	1704.00		NIST Webbook
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tb	571.35	K	Joback Method
tc	785.53	K	Joback Method

tf	288.33	K	Joback Method
vc	0.721	m ³ /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	Paxs	571.35	Joback Method
dvisc	0.0004381	Paxs	524.18	Joback Method
dvisc	0.0005326	Paxs	477.01	Joback Method
dvisc	0.0006759	Paxs	429.84	Joback Method
dvisc	0.0009095	Paxs	382.67	Joback Method
dvisc	0.0013305	Paxs	335.50	Joback Method
dvisc	0.0022043	Paxs	288.33	Joback Method

Sources

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McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C30021740&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
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
p_c:	Critical Pressure
r_{inpol}:	Non-polar retention indices
r_{ipol}:	Polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

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