

Lapachol

Other names:

1,4-Naphthalenedione, 2-hydroxy-3-(3-methyl-2-butenyl)-

1,4-Naphthoquinone, 2-hydroxy-3-(3-methyl-2-butenyl)-

Bethabarra Wood

C.I. Natural Yellow 16

C.I. 75490

Greenhartin

Ipe-Tobacco Wood

Lapachol Wood

NSC 11905

Surinam Greenheart Wood

Taigu Wood

Taiguic acid

Tecomin

2-Hydroxy-3-(3-methyl-2-butenyl)-1,4-naphthoquinone

Greenharten

2-Hydroxy-3-(3-methyl-2-butenyl)-1,4-naphthalenedione

Lapachic acid

Zlut prirodni 16

NSC 629756

2-hydroxy-3-(3-methylbut-2-enyl)-1,4-naphthoquinone

Inchi:

InChI=1S/C15H14O3/c1-9(2)7-8-12-13(16)10-5-3-4-6-11(10)14(17)15(12)18/h3-7,18H,8H

InchiKey:

CIEYTVIYYGTCCI-UHFFFAOYSA-N

Formula:

C15H14O3

SMILES:CC(C)=CCC1=C(O)C(=O)c2ccccc2C1=O**Mol. weight [g/mol]:**

242.27

CAS:

84-79-7

Physical Properties

Property code	Value	Unit	Source
gf	-65.07	kJ/mol	Joback Method
hf	-326.25	kJ/mol	Joback Method
hfus	25.67	kJ/mol	Joback Method
hvap	79.14	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.234		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	2687.42	kPa	Joback Method

tb	830.92	K	Joback Method
tc	1064.27	K	Joback Method
tf	520.43	K	Joback Method
vc	0.718	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.11	J/mol×K	830.92	Joback Method
cpg	560.58	J/mol×K	869.81	Joback Method
cpg	572.05	J/mol×K	908.70	Joback Method
cpg	582.55	J/mol×K	947.59	Joback Method
cpg	592.09	J/mol×K	986.48	Joback Method
cpg	600.69	J/mol×K	1025.38	Joback Method
cpg	608.36	J/mol×K	1064.27	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C84797&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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