

2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-

Other names:	(2E)-3,7-Dimethyl-2,6-octadien-1-ol (E)-3,7-Dimethyl-2,6-octadien-1-ol (E)-3,7-dimethyl-2,6-octadien-1-ol (geraniol) (E)-Nerol (E)-geraniol .beta.-geraniol 2,6-Dimethyl-trans-2,6-octadien-8-ol 2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)- 2,6-Octadien-1-ol, 3,7-dimethyl-, trans- 2,6-dimethyl-trans-2,6-octadiene-8-ol 3,7-Dimethyl-trans-2,6-octadien-1-ol Geraniol Geraniol (E) Geraniol alcohol Geraniol extra Geranyl alcohol Guaniol Lemonol Meranol NSC 9279 t-Geraniol trans-3,7-Dimethyl octa-2,6-dien-1-ol trans-3,7-Dimethyl-2,6-octadien-1-ol trans-3,7-dimethyl-2,6-octadien-1-ol (geraniol) trans-Geraniol «beta»-Geraniol Â«betaÂ»-Geraniol
Inchi:	InChI=1S/C10H18O/c1-9(2)5-4-6-10(3)7-8-11/h5,7,11H,4,6,8H2,1-3H3/b10-7+
InchiKey:	GLZPCOQZEFWAFX-JXMROGBWSA-N
Formula:	C10H18O
SMILES:	CC(C)=CCCC(C)=CCO
Mol. weight [g/mol]:	154.25
CAS:	106-24-1

Physical Properties

Property code	Value	Unit	Source
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gf	39.84	kJ/mol	Joback Method
hf	-187.10	kJ/mol	Joback Method
hfus	23.53	kJ/mol	Joback Method
hvap	54.61	kJ/mol	Joback Method
log10ws	-2.46		Aqueous Solubility Prediction Method
logp	2.671		Crippen Method
mccvol	149.030	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
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tb	502.75 ± 0.50	K	NIST Webbook
tb	503.20	K	NIST Webbook
tc	705.46	K	Joback Method
tf	225.20	K	Joback Method
vc	0.577	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.44	J/mol×K	528.46	Joback Method
cpg	357.23	J/mol×K	557.96	Joback Method
cpg	369.40	J/mol×K	587.46	Joback Method
cpg	380.97	J/mol×K	616.96	Joback Method
cpg	391.97	J/mol×K	646.46	Joback Method
cpg	402.45	J/mol×K	675.96	Joback Method
cpg	412.43	J/mol×K	705.46	Joback Method

hvapt	62.90	kJ/mol	310.50	NIST Webbook
hvapt	59.10	kJ/mol	422.50	NIST Webbook
pvap	1.08e-03	kPa	293.11	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	1.07e-03	kPa	293.14	Vapor pressures and thermophysical properties of selected monoterpenoids
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pvap	3.09e-03	kPa	303.17	Vapor pressures and thermophysical properties of selected monoterpenoids
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pvap	1.92e-04	kPa	278.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	1.95e-04	kPa	278.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	5.17e-03	kPa	308.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	3.55e-04	kPa	283.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	3.58e-04	kPa	283.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	6.41e-04	kPa	288.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	6.37e-04	kPa	288.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	6.39e-04	kPa	288.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	1.12e-03	kPa	293.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	1.11e-03	kPa	293.15	Vapor pressures and thermophysical properties of selected monoterpenoids

pvap	1.12e-03	kPa	293.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	1.89e-03	kPa	298.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	1.90e-03	kPa	298.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	1.91e-03	kPa	298.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	3.19e-03	kPa	303.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	3.18e-03	kPa	303.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	3.19e-03	kPa	303.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	5.17e-03	kPa	308.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	5.17e-03	kPa	308.15	Vapor pressures and thermophysical properties of selected monoterpenoids
pvap	3.57e-04	kPa	283.15	Vapor pressures and thermophysical properties of selected monoterpenoids

rho1	874.22	kg/m3	298.20	Physical Behavior of the Phases from the Liquid-Liquid Equilibrium of Citrus Essential Oils Systems at 298.2 K
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Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	390.50 ± 1.50	K	2.30	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.77991e+01
Coeff. B	-6.38532e+03
Coeff. C	-1.87070e+01
Temperature range (K), min.	383.34
Temperature range (K), max.	530.04

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
293.15	100.00	883.25

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<https://www.doi.org/10.1021/je200940a>

<https://www.doi.org/10.1021/acs.jced.8b00086>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C106241&Units=SI>

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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rho:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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