

Geranic acid

Other names:	Geranoic acid trans-geranic acid trans-geranic acid (trans-3,7-dimethyl-2,6-octadien-1-oic acid) Geranilyc acid trans-geranoic acid
Inchi:	InChI=1S/C10H16O2/c1-8(2)5-4-6-9(3)7-10(11)12/h5,7H,4,6H2,1-3H3,(H,11,12)/b9-7+
InchiKey:	ZHYZQXUYZJNEHD-VQHVLOKHSА-N
Formula:	C10H16O2
SMILES:	CC(C)=CCCC(C)=CC(=O)O
Mol. weight [g/mol]:	168.23
CAS:	4698-08-2

Physical Properties

Property code	Value	Unit	Source
gf	-89.08	kJ/mol	Joback Method
hf	-299.68	kJ/mol	Joback Method
hfus	25.13	kJ/mol	Joback Method
hvap	61.36	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.764		Crippen Method
mcvol	150.600	ml/mol	McGowan Method
pc	2744.03	kPa	Joback Method
rinpol	1362.00		NIST Webbook
rinpol	1355.00		NIST Webbook
rinpol	1395.00		NIST Webbook
rinpol	1353.00		NIST Webbook
rinpol	1358.00		NIST Webbook
rinpol	1355.00		NIST Webbook
rinpol	1354.00		NIST Webbook
rinpol	1348.00		NIST Webbook
rinpol	1372.30		NIST Webbook
rinpol	1362.00		NIST Webbook
rinpol	1355.00		NIST Webbook
rinpol	1375.00		NIST Webbook
rinpol	1347.00		NIST Webbook
rinpol	1359.00		NIST Webbook
rinpol	1344.00		NIST Webbook

ripol	1353.00		NIST Webbook
ripol	2294.00		NIST Webbook
ripol	2328.00		NIST Webbook
ripol	2343.00		NIST Webbook
ripol	2319.00		NIST Webbook
ripol	2294.00		NIST Webbook
ripol	2320.00		NIST Webbook
ripol	2292.00		NIST Webbook
ripol	2340.00		NIST Webbook
ripol	2329.00		NIST Webbook
ripol	2353.00		NIST Webbook
ripol	2311.00		NIST Webbook
ripol	2328.00		NIST Webbook
ripol	2340.00		NIST Webbook
ripol	2331.00		NIST Webbook
ripol	2355.00		NIST Webbook
ripol	2287.00		NIST Webbook
ripol	2315.00		NIST Webbook
ripol	2353.00		NIST Webbook
ripol	2337.00		NIST Webbook
ripol	2329.00		NIST Webbook
tb	582.33	K	Joback Method
tc	767.56	K	Joback Method
tf	275.13	K	Joback Method
vc	0.583	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.94	J/mol×K	582.33	Joback Method
cpg	374.66	J/mol×K	613.20	Joback Method
cpg	385.77	J/mol×K	644.07	Joback Method
cpg	396.30	J/mol×K	674.94	Joback Method
cpg	406.28	J/mol×K	705.82	Joback Method
cpg	415.76	J/mol×K	736.69	Joback Method
cpg	424.77	J/mol×K	767.56	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4698082&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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