Acetic acid, cinnamyl ester

Other names:	2-Propen-1-ol, 3-phenyl-, acetate
	Cinnamyl alcohol, acetate
	«gamma»-Phenylallyl acetate
	Cinnamyl acetate
	3-Phenyl-2-propenyl acetate
	3-Phenyl-2-propen-1-yl acetate
	3-Phenyl-2-propen-1-ol acetate
	1-Acetoxy-3-phenyl-2-propene
	2-Propen-1-ol, 3-phenyl-, 1-acetate
	3-Phenylallyl acetate
	NSC 46109
Inchi:	InChI=1S/C11H12O2/c1-10(12)13-9-5-8-11-6-3-2-4-7-11/h2-8H,9H2,1H3
InchiKey:	WJSDHUCWMSHDCR-UHFFFAOYSA-N
Formula:	C11H12O2
SMILES:	CC(=O)OCC=Cc1ccccc1
Mol. weight [g/mol]:	176.21
CAS:	103-54-8

Physical Properties

Property code	Value	Unit	Source
gf	0.45	kJ/mol	Joback Method
hf	-161.42	kJ/mol	Joback Method
hfus	21.28	kJ/mol	Joback Method
hvap	51.47	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	2.263		Crippen Method
mcvol	145.230	ml/mol	McGowan Method
pc	2937.70	kPa	Joback Method
rinpol	1413.00		NIST Webbook
rinpol	1419.00		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1408.00		NIST Webbook
rinpol	1408.00		NIST Webbook
rinpol	1455.00		NIST Webbook
rinpol	1430.00		NIST Webbook
rinpol	1440.00		NIST Webbook
rinpol	1422.00		NIST Webbook

rinpol	1439.00	NIST Webbook
rinpol	1446.00	NIST Webbook
rinpol	1413.20	NIST Webbook
rinpol	1444.00	NIST Webbook
rinpol	1440.00	NIST Webbook
rinpol	1454.00	NIST Webbook
rinpol	1406.00	NIST Webbook
rinpol	1411.00	NIST Webbook
rinpol	1453.00	NIST Webbook
rinpol	1441.00	NIST Webbook
rinpol	1418.00	NIST Webbook
rinpol	1419.00	NIST Webbook
rinpol	1419.00	NIST Webbook
rinpol	1422.00	NIST Webbook
rinpol	1419.00	NIST Webbook
rinpol	1440.00	NIST Webbook
rinpol	1413.00	NIST Webbook
rinpol	1408.00	NIST Webbook
rinpol	1422.00	NIST Webbook
rinpol	1446.00	NIST Webbook
rinpol	1411.00	NIST Webbook
rinpol	1446.00	NIST Webbook
rinpol	1440.00	NIST Webbook
ripol	2174.00	NIST Webbook
ripol	2174.00	NIST Webbook
ripol	2100.00	NIST Webbook
ripol	2176.00	NIST Webbook
ripol	2100.00	NIST Webbook
ripol	2100.00	NIST Webbook
ripol	2153.00	NIST Webbook
ripol	2151.00	NIST Webbook
ripol	2150.00	NIST Webbook
ripol	2156.00	NIST Webbook
ripol	2167.00	NIST Webbook
ripol	2125.00	NIST Webbook
ripol	2142.00	NIST Webbook
ripol	2197.00	NIST Webbook
ripol	2098.00	NIST Webbook
ripol	2145.00	NIST Webbook
ripol	2145.00	NIST Webbook
ripol	2150.00	NIST Webbook
ripol	2102.00	NIST Webbook
ripol	2156.60	NIST Webbook
ripol	2176.00	NIST Webbook

ripol	2103.00		NIST Webbook
ripol	2103.00		NIST Webbook
ripol	2142.00		NIST Webbook
ripol	2150.00		NIST Webbook
tb	538.20	K	NIST Webbook
tc	776.95	K	Joback Method
tf	307.23	K	Joback Method
vc	0.547	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	327.27	J/mol×K	558.21	Joback Method
cpg	341.18	J/mol×K	594.67	Joback Method
cpg	354.22	J/mol×K	631.12	Joback Method
cpg	366.41	J/mol×K	667.58	Joback Method
cpg	377.80	J/mol×K	704.04	Joback Method
cpg	388.43	J/mol×K	740.50	Joback Method
cpg	398.33	J/mol×K	776.95	Joback Method
dvisc	0.0021241	Pa×s	307.23	Joback Method
dvisc	0.0010842	Pa×s	349.06	Joback Method
dvisc	0.0006391	Pa×s	390.89	Joback Method
dvisc	0.0004172	Pa×s	432.72	Joback Method
dvisc	0.0002937	Pa×s	474.55	Joback Method
dvisc	0.0002188	Pa×s	516.38	Joback Method
dvisc	0.0001704	Pa×s	558.21	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C103548&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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