

Cinnamyl cinnamate

Other names:

2-Propenoic acid, 3-phenyl-, 3-phenyl-2-propenyl ester
Cinnamic acid, cinnamyl ester
Cinnamyl alcohol, cinnamate
Phenylallyl cinnamate
Styracin
3-Phenyl-2-propen-1-yl cinnamate
Cinnamylester kyseliny skoricove
3-Phenyl-2-propen-1-yl 3-phenyl propenoate
3-Phenyl allyl cinnamate
Cinnamyl «beta»-phenylacrylate
2-Propenoic acid, 3-phenyl-, 3-phenyl-2-propen-1-yl ester
NSC 46161

Inchi:

InChI=1S/C18H16O2/c19-18(14-13-17-10-5-2-6-11-17)20-15-7-12-16-8-3-1-4-9-16/h1-14

InchiKey:

NQBWNECTZUOWID-UHFFFAOYSA-N

Formula:

C18H16O2

SMILES:

O=C(C=Cc1ccccc1)OCC=Cc1ccccc1

Mol. weight [g/mol]:

264.32

CAS:

122-69-0

Physical Properties

Property code	Value	Unit	Source
gf	252.02	kJ/mol	Joback Method
hf	47.85	kJ/mol	Joback Method
hfus	33.65	kJ/mol	Joback Method
hvap	69.29	kJ/mol	Joback Method
log10ws	-4.47		Crippen Method
logp	3.956		Crippen Method
mcvol	215.800	ml/mol	McGowan Method
pc	2195.89	kPa	Joback Method
rinpol	2447.00		NIST Webbook
tb	749.21	K	Joback Method
tc	991.03	K	Joback Method
tf	407.46	K	Joback Method
vc	0.811	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.88	J/molxK	749.21	Joback Method
cpg	644.51	J/molxK	950.72	Joback Method
cpg	633.21	J/molxK	910.42	Joback Method
cpg	621.01	J/molxK	870.12	Joback Method
cpg	607.80	J/molxK	829.82	Joback Method
cpg	593.46	J/molxK	789.51	Joback Method
cpg	655.03	J/molxK	991.03	Joback Method
dvisc	0.0000726	Paxs	749.21	Joback Method
dvisc	0.0000945	Paxs	692.25	Joback Method
dvisc	0.0001288	Paxs	635.29	Joback Method
dvisc	0.0001867	Paxs	578.34	Joback Method
dvisc	0.0002933	Paxs	521.38	Joback Method
dvisc	0.0005150	Paxs	464.42	Joback Method
dvisc	0.0010583	Paxs	407.46	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C122690&Units=SI

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

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