

Ethyl 2,4,6-trimethoxycinnamate

Other names:	2-Propenoic acid, 3-(2,4,6-trimethoxyphenyl)-, ethyl ester
Inchi:	InChI=1S/C14H18O5/c1-5-19-14(15)7-6-11-12(17-3)8-10(16-2)9-13(11)18-4/h6-9H,5H2,
InchiKey:	NGOZXDZLACOEPS-VOTSOKGWSA-N
Formula:	C14H18O5
SMILES:	CCOC(=O)C=Cc1c(OC)cc(OC)cc1OC
Mol. weight [g/mol]:	266.29
CAS:	67827-53-6

Physical Properties

Property code	Value	Unit	Source
gf	-318.18	kJ/mol	Joback Method
hf	-654.41	kJ/mol	Joback Method
hfus	31.44	kJ/mol	Joback Method
hvap	67.36	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.289		Crippen Method
mcvol	205.110	ml/mol	McGowan Method
pc	2012.70	kPa	Joback Method
tb	709.05	K	Joback Method
tc	914.01	K	Joback Method
tf	445.29	K	Joback Method
vc	0.769	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	551.07	J/molxK	709.05	Joback Method
cpg	565.53	J/molxK	743.21	Joback Method
cpg	579.15	J/molxK	777.37	Joback Method
cpg	591.93	J/molxK	811.53	Joback Method
cpg	603.84	J/molxK	845.69	Joback Method
cpg	614.87	J/molxK	879.85	Joback Method
cpg	625.00	J/molxK	914.01	Joback Method
dvisc	0.0003925	Paxs	445.29	Joback Method

dvisc	0.0002508	Paxs	489.25	Joback Method
dvisc	0.0001726	Paxs	533.21	Joback Method
dvisc	0.0001257	Paxs	577.17	Joback Method
dvisc	0.0000958	Paxs	621.13	Joback Method
dvisc	0.0000756	Paxs	665.09	Joback Method
dvisc	0.0000615	Paxs	709.05	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C67827536&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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