

Methyl p-methoxycinnamate, cis

Other names:	Methyl (2Z)-3-(4-methoxyphenyl)-2-propenoate 2-Propenoic acid, 3-(4-methoxyphenyl)-, methyl ester, cis Methyl (Z)-p-methoxycinnamate (Z)-Methyl-p-methoxycinnamate cis-Methyl p-methoxycinnamate 2-Propenoic acid, 3-(4-methoxyphenyl)-, methyl ester, (Z)-
Inchi:	InChI=1S/C11H12O3/c1-13-10-6-3-9(4-7-10)5-8-11(12)14-2/h3-8H,1-2H3/b8-5-
InchiKey:	VEZIKIAGFYZTCI-YVMONPNESA-N
Formula:	C11H12O3
SMILES:	<chem>COC(=O)C=Cc1ccc(OC)cc1</chem>
Mol. weight [g/mol]:	192.21
CAS:	19310-29-3

Physical Properties

Property code	Value	Unit	Source
gf	-114.18	kJ/mol	Joback Method
hf	-305.11	kJ/mol	Joback Method
hfus	22.08	kJ/mol	Joback Method
hvap	54.54	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	1.881		Crippen Method
mcvol	151.100	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	1544.00		NIST Webbook
rinpol	1544.00		NIST Webbook
tb	585.61	K	Joback Method
tc	802.77	K	Joback Method
tf	341.98	K	Joback Method
vc	0.566	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.81	J/molxK	585.61	Joback Method

cpg	364.16	J/mol×K	621.80	Joback Method
cpg	376.74	J/mol×K	658.00	Joback Method
cpg	388.57	J/mol×K	694.19	Joback Method
cpg	399.68	J/mol×K	730.38	Joback Method
cpg	410.06	J/mol×K	766.58	Joback Method
cpg	419.74	J/mol×K	802.77	Joback Method
dvisc	0.0012034	Paxs	341.98	Joback Method
dvisc	0.0006894	Paxs	382.59	Joback Method
dvisc	0.0004395	Paxs	423.19	Joback Method
dvisc	0.0003032	Paxs	463.80	Joback Method
dvisc	0.0002220	Paxs	504.40	Joback Method
dvisc	0.0001703	Paxs	545.00	Joback Method
dvisc	0.0001355	Paxs	585.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19310293&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
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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