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:	COC(=O)C=Cc1ccc(OC)cc1
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/mol×K	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	Pa×s	341.98	Joback Method
dvisc	0.0006894	Pa×s	382.59	Joback Method
dvisc	0.0004395	Pa×s	423.19	Joback Method
dvisc	0.0003032	Pa×s	463.80	Joback Method
dvisc	0.0002220	Pa×s	504.40	Joback Method
dvisc	0.0001703	Pa×s	545.00	Joback Method
dvisc	0.0001355	Pa×s	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/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
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