methyl m-methoxy carbonylcinnamate

Inchi: InChI=1S/C12H12O4/c1-15-11(13)7-6-9-4-3-5-10(8-9)12(14)16-2/h3-8H,1-2H3/b7-6+
InchiKey: XPSVBFWYSAVLGD-VOTSOKGWSA-N
Formula: C12H12O4
SMILES: COC(=O)C=Cc1cccc(C(=O)OC)c1
Mol. weight [g/mol]: 220.22

Physical Properties

Property code	Value	Unit	Source
gf	-234.68	kJ/mol	Joback Method
hf	-438.33	kJ/mol	Joback Method
hfus	26.26	kJ/mol	Joback Method
hvap	63.51	kJ/mol	Joback Method
log10ws	-2.24		Crippen Method
logp	1.659		Crippen Method
mcvol	166.760	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
rinpol	1786.00		NIST Webbook
tb	662.36	K	Joback Method
tc	882.56	K	Joback Method
tf	403.18	K	Joback Method
vc	0.627	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	414.20	J/mol×K	662.36	Joback Method
cpg	469.67	J/mol×K	845.86	Joback Method
cpg	460.18	J/mol×K	809.16	Joback Method
cpg	449.90	J/mol×K	772.46	Joback Method
cpg	438.82	J/mol×K	735.76	Joback Method
cpg	426.93	J/mol×K	699.06	Joback Method
cpg	478.39	J/mol×K	882.56	Joback Method
dvisc	0.0001282	Pa×s	662.36	Joback Method
dvisc	0.0001606	Pa×s	619.16	Joback Method

dvisc	0.0002080	Pa×s	575.97	Joback Method
dvisc	0.0002809	Pa×s	532.77	Joback Method
dvisc	0.0004001	Pa×s	489.57	Joback Method
dvisc	0.0006102	Pa×s	446.38	Joback Method
dvisc	0.0010188	Pa×s	403.18	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R504999&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