

2-Propenoic, 3-(3, 4, 5 trimethoxy phenyl) methylester

Inchi:	InChI=1S/C13H16O5/c1-15-10-7-9(5-6-12(14)17-3)8-11(16-2)13(10)18-4/h5-8H,1-4H3/b
InchiKey:	KLXHCGFNNUQTEY-AATRIKPKSA-N
Formula:	C13H16O5
SMILES:	COC(=O)C=Cc1cc(OC)c(OC)c(OC)c1
Mol. weight [g/mol]:	252.26

Physical Properties

Property code	Value	Unit	Source
gf	-326.60	kJ/mol	Joback Method
hf	-633.77	kJ/mol	Joback Method
hfus	28.85	kJ/mol	Joback Method
hvap	65.14	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	1.899		Crippen Method
mcvol	191.020	ml/mol	McGowan Method
pc	2197.95	kPa	Joback Method
rinpol	1784.00		NIST Webbook
rinpol	1784.00		NIST Webbook
tb	686.17	K	Joback Method
tc	893.75	K	Joback Method
tf	434.02	K	Joback Method
vc	0.714	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	498.43	J/molxK	686.17	Joback Method
cpg	512.36	J/molxK	720.77	Joback Method
cpg	525.53	J/molxK	755.36	Joback Method
cpg	537.90	J/molxK	789.96	Joback Method
cpg	549.47	J/molxK	824.56	Joback Method
cpg	560.19	J/molxK	859.15	Joback Method
cpg	570.06	J/molxK	893.75	Joback Method
dvisc	0.0004157	Paxs	434.02	Joback Method

dvisc	0.0002698	Paxs	476.05	Joback Method
dvisc	0.0001879	Paxs	518.07	Joback Method
dvisc	0.0001381	Paxs	560.10	Joback Method
dvisc	0.0001060	Paxs	602.12	Joback Method
dvisc	0.0000842	Paxs	644.15	Joback Method
dvisc	0.0000688	Paxs	686.17	Joback Method

Sources

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=R417548&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_cvol:	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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