

Ethyl 3-(3,4-dimethoxyphenyl)acrylate

Inchi:	InChI=1S/C13H16O4/c1-4-17-13(14)8-6-10-5-7-11(15-2)12(9-10)16-3/h5-9H,4H2,1-3H3
InchiKey:	SUFLQJBENWTBOL-SOFGYWHQSA-N
Formula:	C13H16O4
SMILES:	CCOC(=O)C=Cc1ccc(OC)c(OC)c1
Mol. weight [g/mol]:	236.26
CAS:	20583-78-2

Physical Properties

Property code	Value	Unit	Source
gf	-211.97	kJ/mol	Joback Method
hf	-490.08	kJ/mol	Joback Method
hfus	28.05	kJ/mol	Joback Method
hvap	62.07	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.280		Crippen Method
mcvol	185.150	ml/mol	McGowan Method
pc	2265.42	kPa	Joback Method
rinpol	1968.30		NIST Webbook
rinpol	1968.30		NIST Webbook
tb	658.77	K	Joback Method
tc	867.49	K	Joback Method
tf	399.27	K	Joback Method
vc	0.696	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.40	J/mol×K	658.77	Joback Method
cpg	487.70	J/mol×K	693.56	Joback Method
cpg	501.21	J/mol×K	728.34	Joback Method
cpg	513.93	J/mol×K	763.13	Joback Method
cpg	525.86	J/mol×K	797.92	Joback Method
cpg	536.99	J/mol×K	832.70	Joback Method
cpg	547.32	J/mol×K	867.49	Joback Method

dvisc	0.0006686	Paxs	399.27	Joback Method
dvisc	0.0004044	Paxs	442.52	Joback Method
dvisc	0.0002675	Paxs	485.77	Joback Method
dvisc	0.0001893	Paxs	529.02	Joback Method
dvisc	0.0001412	Paxs	572.27	Joback Method
dvisc	0.0001097	Paxs	615.52	Joback Method
dvisc	0.0000881	Paxs	658.77	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=C20583782&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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