

3-(3,4,5-Trimethoxyphenyl)propionic acid

Other names:	3-(3,4,5-Trimethoxyphenyl)propanoic acid 3,4,5-Trimethoxyphenylpropionic acid «beta»-(3,4,5-Trimethoxy phenyl)propionic acid Benzenepropanoic acid, 3,4,5-trimethoxy- 3,4,5-trimethoxyhydrocinnamic acid
Inchi:	InChI=1S/C12H16O5/c1-15-9-6-8(4-5-11(13)14)7-10(16-2)12(9)17-3/h6-7H,4-5H2,1-3H3
InchiKey:	ZCYXGVJUJBKJAI-UHFFFAOYSA-N
Formula:	C12H16O5
SMILES:	COc1cc(CCC(=O)O)cc(OC)c1OC
Mol. weight [g/mol]:	240.25
CAS:	25173-72-2

Physical Properties

Property code	Value	Unit	Source
gf	-447.06	kJ/mol	Joback Method
hf	-750.36	kJ/mol	Joback Method
hfus	28.96	kJ/mol	Joback Method
hvap	77.22	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	1.730		Crippen Method
mcvol	181.230	ml/mol	McGowan Method
pc	2550.76	kPa	Joback Method
tb	728.89	K	Joback Method
tc	923.64	K	Joback Method
tf	466.42	K	Joback Method
vc	0.678	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	497.77	J/molxK	728.89	Joback Method
cpg	509.53	J/molxK	761.35	Joback Method
cpg	520.60	J/molxK	793.81	Joback Method
cpg	530.98	J/molxK	826.26	Joback Method

cpg	540.64	J/molxK	858.72	Joback Method
cpg	549.57	J/molxK	891.18	Joback Method
cpg	557.76	J/molxK	923.64	Joback Method
dvisc	0.0004238	Paxs	466.42	Joback Method
dvisc	0.0002165	Paxs	510.16	Joback Method
dvisc	0.0001230	Paxs	553.91	Joback Method
dvisc	0.0000759	Paxs	597.65	Joback Method
dvisc	0.0000501	Paxs	641.40	Joback Method
dvisc	0.0000348	Paxs	685.14	Joback Method
dvisc	0.0000253	Paxs	728.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C25173722&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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