

Fumaric acid, di(3,4-dimethoxyphenyl) ester

Inchi: InChI=1S/C20H20O8/c1-23-15-7-5-13(11-17(15)25-3)27-19(21)9-10-20(22)28-14-6-8-16
InchiKey: ZRWICVAFXATAO-MDZDMXLPSA-N
Formula: C20H20O8
SMILES: COc1ccc(OC(=O)C=CC(=O)Oc2ccc(OC)c(OC)c2)cc1OC
Mol. weight [g/mol]: 388.37

Physical Properties

Property code	Value	Unit	Source
gf	-503.80	kJ/mol	Joback Method
hf	-930.21	kJ/mol	Joback Method
hfus	44.61	kJ/mol	Joback Method
hvap	95.22	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	2.788		Crippen Method
mcvol	279.200	ml/mol	McGowan Method
pc	1652.46	kPa	Joback Method
rinpol	3219.00		NIST Webbook
tb	976.70	K	Joback Method
tc	1207.33	K	Joback Method
tf	646.24	K	Joback Method
vc	1.040	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	854.21	J/mol×K	976.70	Joback Method
cpg	864.06	J/mol×K	1015.14	Joback Method
cpg	872.11	J/mol×K	1053.58	Joback Method
cpg	878.32	J/mol×K	1092.02	Joback Method
cpg	882.66	J/mol×K	1130.45	Joback Method
cpg	885.07	J/mol×K	1168.89	Joback Method
cpg	885.52	J/mol×K	1207.33	Joback Method
dvisc	0.0000899	Pa×s	646.24	Joback Method
dvisc	0.0000605	Pa×s	701.32	Joback Method

dvisc	0.0000432	Pa×s	756.39	Joback Method
dvisc	0.0000322	Pa×s	811.47	Joback Method
dvisc	0.0000250	Pa×s	866.55	Joback Method
dvisc	0.0000199	Pa×s	921.62	Joback Method
dvisc	0.0000163	Pa×s	976.70	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U348177&Units=SI

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

Latest version available from:

<https://www.chemeo.com/cid/48-035-0/Fumaric-acid-di-3-4-dimethoxyphenyl-ester.pdf>

Generated by Cheméo on 2025-12-05 17:38:20.688114236 +0000 UTC m=+4704498.218154901.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.