

1,7-bis(3,4-Dimethoxyphenyl)heptane-3,5-diyl diacetate

Inchi:	InChI=1S/C27H36O8/c1-18(28)34-22(11-7-20-9-13-24(30-3)26(15-20)32-5)17-23(35-19)
InchiKey:	HHLUMCLAOIMUOP-UHFFFAOYSA-N
Formula:	C27H36O8
SMILES:	COc1ccc(CCC(CC(Cc2ccc(OC)c(OC)c2)OC(C)=O)OC(C)=O)cc1OC
Mol. weight [g/mol]:	488.57

Physical Properties

Property code	Value	Unit	Source
gf	-529.96	kJ/mol	Joback Method
hf	-1202.47	kJ/mol	Joback Method
hfus	55.49	kJ/mol	Joback Method
hvap	110.07	kJ/mol	Joback Method
log10ws	-6.08		Crippen Method
logp	4.540		Crippen Method
mvol	382.130	ml/mol	McGowan Method
pc	996.39	kPa	Joback Method
rinpol	3347.30		NIST Webbook
rinpol	3347.30		NIST Webbook
tb	1131.82	K	Joback Method
tc	1388.55	K	Joback Method
tf	700.21	K	Joback Method
vc	1.440	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1292.59	J/molxK	1131.82	Joback Method
cpg	1294.22	J/molxK	1345.76	Joback Method
cpg	1300.26	J/molxK	1302.97	Joback Method
cpg	1303.07	J/molxK	1260.19	Joback Method
cpg	1302.71	J/molxK	1217.40	Joback Method
cpg	1299.20	J/molxK	1174.61	Joback Method
cpg	1284.92	J/molxK	1388.55	Joback Method
dvisc	0.0000053	Paxs	1131.82	Joback Method

dvisc	0.0000067	Paxs	1059.88	Joback Method
dvisc	0.0000088	Paxs	987.95	Joback Method
dvisc	0.0000121	Paxs	916.01	Joback Method
dvisc	0.0000177	Paxs	844.08	Joback Method
dvisc	0.0000275	Paxs	772.14	Joback Method
dvisc	0.0000469	Paxs	700.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U412828&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

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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