

1-(3,4-Dimethoxyphenyl)decane-3,5-diyl diacetate

Inchi:	InChI=1S/C22H34O6/c1-6-7-8-9-19(27-16(2)23)15-20(28-17(3)24)12-10-18-11-13-21(25)
InchiKey:	QCJKXQWAFFZFLJ-UHFFFAOYSA-N
Formula:	C22H34O6
SMILES:	CCCCC(CC(CCc1ccc(OC)c(OC)c1)OC(C)=O)OC(C)=O
Mol. weight [g/mol]:	394.50
CAS:	53254-52-7

Physical Properties

Property code	Value	Unit	Source
gf	-455.21	kJ/mol	Joback Method
hf	-1048.42	kJ/mol	Joback Method
hfus	46.90	kJ/mol	Joback Method
hvap	90.52	kJ/mol	Joback Method
log10ws	-5.49		Crippen Method
logp	4.470		Crippen Method
mcvol	323.700	ml/mol	McGowan Method
pc	1145.21	kPa	Joback Method
rinpol	2554.10		NIST Webbook
rinpol	2554.10		NIST Webbook
tb	935.94	K	Joback Method
tc	1147.69	K	Joback Method
tf	547.94	K	Joback Method
vc	1.232	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1056.37	J/molxK	935.94	Joback Method
cpg	1071.59	J/molxK	971.23	Joback Method
cpg	1085.24	J/molxK	1006.52	Joback Method
cpg	1097.32	J/molxK	1041.82	Joback Method
cpg	1107.83	J/molxK	1077.11	Joback Method
cpg	1116.75	J/molxK	1112.40	Joback Method
cpg	1124.10	J/molxK	1147.69	Joback Method

dvisc	0.0002477	Paxs	547.94	Joback Method
dvisc	0.0001294	Paxs	612.61	Joback Method
dvisc	0.0000765	Paxs	677.27	Joback Method
dvisc	0.0000496	Paxs	741.94	Joback Method
dvisc	0.0000345	Paxs	806.61	Joback Method
dvisc	0.0000253	Paxs	871.27	Joback Method
dvisc	0.0000194	Paxs	935.94	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C53254527&Units=SI
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

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

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