

2-CO2Me-3,4-(OH)2-4'-OMe-bibenzyl, acetylated

Inchi:	InChI=1S/C21H22O7/c1-13(22)27-18-12-9-16(8-5-15-6-10-17(25-3)11-7-15)19(21(24)26
InchiKey:	JRJJBYUGAJBEKT-UHFFFAOYSA-N
Formula:	C21H22O7
SMILES:	<chem>COC(=O)c1c(CCc2ccc(OC)cc2)ccc(OC(C)=O)c1OC(C)=O</chem>
Mol. weight [g/mol]:	386.40

Physical Properties

Property code	Value	Unit	Source
gf	-494.52	kJ/mol	Joback Method
hf	-916.21	kJ/mol	Joback Method
hfus	46.22	kJ/mol	Joback Method
hvap	99.42	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	3.118		Crippen Method
mvol	287.420	ml/mol	McGowan Method
pc	1586.01	kPa	Joback Method
rinpol	2622.00		NIST Webbook
rinpol	2622.00		NIST Webbook
tb	1004.45	K	Joback Method
tc	1237.61	K	Joback Method
tf	668.06	K	Joback Method
vc	1.085	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.78	J/molxK	1004.45	Joback Method
cpg	905.27	J/molxK	1043.31	Joback Method
cpg	912.99	J/molxK	1082.17	Joback Method
cpg	918.90	J/molxK	1121.03	Joback Method
cpg	923.00	J/molxK	1159.89	Joback Method
cpg	925.26	J/molxK	1198.75	Joback Method
cpg	925.67	J/molxK	1237.61	Joback Method
dvisc	0.0001509	Paxs	668.06	Joback Method

dvisc	0.0001020	Paxs	724.12	Joback Method
dvisc	0.0000730	Paxs	780.19	Joback Method
dvisc	0.0000546	Paxs	836.26	Joback Method
dvisc	0.0000424	Paxs	892.32	Joback Method
dvisc	0.0000339	Paxs	948.38	Joback Method
dvisc	0.0000278	Paxs	1004.45	Joback Method

Sources

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=R273853&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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