

Sebacic acid, (1,3-benzodioxol-5-yl)methyl propyl ester

Inchi:	InChI=1S/C21H30O6/c1-2-13-24-20(22)9-7-5-3-4-6-8-10-21(23)25-15-17-11-12-18-19(14)
InchiKey:	ZKGMGMCPMDJAJ-UHFFFAOYSA-N
Formula:	C21H30O6
SMILES:	CCCOC(=O)CCCCCCCCC(=O)OCc1ccc2c(c1)OCO2
Mol. weight [g/mol]:	378.46

Physical Properties

Property code	Value	Unit	Source
gf	-352.53	kJ/mol	Joback Method
hf	-923.64	kJ/mol	Joback Method
hfus	62.00	kJ/mol	Joback Method
hvap	93.49	kJ/mol	Joback Method
log10ws	-5.73		Crippen Method
logp	4.532		Crippen Method
mvol	298.750	ml/mol	McGowan Method
pc	1375.82	kPa	Joback Method
rinpol	2839.00		NIST Webbook
rinpol	2839.00		NIST Webbook
tb	934.41	K	Joback Method
tc	1148.05	K	Joback Method
tf	597.53	K	Joback Method
vc	1.151	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	979.05	J/molxK	934.41	Joback Method
cpg	993.76	J/molxK	970.02	Joback Method
cpg	1007.37	J/molxK	1005.62	Joback Method
cpg	1019.94	J/molxK	1041.23	Joback Method
cpg	1031.53	J/molxK	1076.84	Joback Method
cpg	1042.18	J/molxK	1112.44	Joback Method
cpg	1051.96	J/molxK	1148.05	Joback Method
dvisc	0.0005737	Paxs	597.53	Joback Method

dvisc	0.0003652	Paxs	653.68	Joback Method
dvisc	0.0002498	Paxs	709.82	Joback Method
dvisc	0.0001806	Paxs	765.97	Joback Method
dvisc	0.0001365	Paxs	822.12	Joback Method
dvisc	0.0001069	Paxs	878.26	Joback Method
dvisc	0.0000862	Paxs	934.41	Joback Method

Sources

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=U380686&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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