

Succinic acid, dec-2-yl pentafluorobenzyl ester

Inchi:	InChI=1S/C21H27F5O4/c1-3-4-5-6-7-8-9-13(2)30-16(28)11-10-15(27)29-12-14-17(22)19
InchiKey:	WKLODDWSZMCTOK-UHFFFAOYSA-N
Formula:	C21H27F5O4
SMILES:	CCCCCCCCC(C)OC(=O)CCC(=O)OCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	438.43

Physical Properties

Property code	Value	Unit	Source
gf	-1254.13	kJ/mol	Joback Method
hf	-1773.02	kJ/mol	Joback Method
hfus	59.69	kJ/mol	Joback Method
hvap	81.77	kJ/mol	Joback Method
log10ws	-7.71		Crippen Method
logp	5.888		Crippen Method
mcvol	306.720	ml/mol	McGowan Method
pc	1038.57	kPa	Joback Method
rinpol	2322.00		NIST Webbook
rinpol	2322.00		NIST Webbook
tb	879.95	K	Joback Method
tc	1077.31	K	Joback Method
tf	547.72	K	Joback Method
vc	1.236	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	971.21	J/mol×K	879.95	Joback Method
cpg	986.08	J/mol×K	912.84	Joback Method
cpg	999.80	J/mol×K	945.74	Joback Method
cpg	1012.38	J/mol×K	978.63	Joback Method
cpg	1023.82	J/mol×K	1011.52	Joback Method
cpg	1034.14	J/mol×K	1044.42	Joback Method
cpg	1043.33	J/mol×K	1077.31	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389889&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

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	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/118-749-0/Succinic-acid-dec-2-yl-pentafluorobenzyl-ester.pdf>

Generated by Cheméo on 2024-05-09 01:06:02.389614773 +0000 UTC m=+17506011.310192084.

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