

Phthalic acid, hexyl 4-trifluoromethoxybenzyl ester

Inchi:	InChI=1S/C22H23F3O5/c1-2-3-4-7-14-28-20(26)18-8-5-6-9-19(18)21(27)29-15-16-10-12
InchiKey:	LFGXZZCPHSUAFP-UHFFFAOYSA-N
Formula:	C22H23F3O5
SMILES:	CCCCCOC(=O)c1ccccc1C(=O)OCc1ccc(OC(F)(F)F)cc1
Mol. weight [g/mol]:	424.41

Physical Properties

Property code	Value	Unit	Source
gf	-814.51	kJ/mol	Joback Method
hf	-1266.19	kJ/mol	Joback Method
hfus	48.63	kJ/mol	Joback Method
hvap	87.42	kJ/mol	Joback Method
log10ws	-7.44		Crippen Method
logp	5.679		Crippen Method
mcvol	299.380	ml/mol	McGowan Method
pc	1332.96	kPa	Joback Method
rinqol	2470.00		NIST Webbook
tb	935.66	K	Joback Method
tc	1151.61	K	Joback Method
tf	586.32	K	Joback Method
vc	1.161	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	945.91	J/molxK	935.66	Joback Method
cpg	958.44	J/molxK	971.65	Joback Method
cpg	969.70	J/molxK	1007.64	Joback Method
cpg	979.73	J/molxK	1043.64	Joback Method
cpg	988.58	J/molxK	1079.63	Joback Method
cpg	996.29	J/molxK	1115.62	Joback Method
cpg	1002.90	J/molxK	1151.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377688&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
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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	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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