Phthalic acid, propyl 2,4,5-trifluorobenzyl ester

Inchi: InChI=1S/C18H15F3O4/c1-2-7-24-17(22)12-5-3-4-6-13(12)18(23)25-10-11-8-15(20)16(2
InchiKey: MYLCSIQCSXALGK-UHFFFAOYSA-N
Formula: C18H15F3O4
SMILES: CCCOC(=O)c1ccccc1C(=O)OCc1cc(F)c(F)cc1F
Mol. weight [g/mol]: 352.30

Physical Properties

Property code	Value	Unit	Source
gf	-765.29	kJ/mol	Joback Method
hf	-1065.60	kJ/mol	Joback Method
hfus	43.72	kJ/mol	Joback Method
hvap	78.72	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	4.028		Crippen Method
mcvol	237.150	ml/mol	McGowan Method
pc	1755.07	kPa	Joback Method
rinpol	2275.00		NIST Webbook
rinpol	2275.00		NIST Webbook
tb	834.91	K	Joback Method
tc	1045.07	K	Joback Method
tf	541.63	K	Joback Method
vc	0.929	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.90	J/mol×K	834.91	Joback Method
cpg	699.03	J/mol×K	869.94	Joback Method
cpg	710.11	J/mol×K	904.96	Joback Method
cpg	720.16	J/mol×K	939.99	Joback Method
cpg	729.18	J/mol×K	975.02	Joback Method
cpg	737.20	J/mol×K	1010.04	Joback Method
cpg	744.21	J/mol×K	1045.07	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=U415491&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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