Succinic acid, 2,2,3,3-tetrafluoropropyl phenethyl ester

Inchi: InChI=1S/C15H16F4O4/c16-14(17)15(18,19)10-23-13(21)7-6-12(20)22-9-8-11-4-2-1-3-5

InchiKey: HRGYAARKGZHHHO-UHFFFAOYSA-N

Formula: C15H16F4O4

SMILES: O=C(CCC(=O)OCC(F)(F)C(F)F)OCCc1ccccc1

Mol. weight [g/mol]: 336.28

Physical Properties

Property code	Value	Unit	Source
gf	-1058.85	kJ/mol	Joback Method
hf	-1404.47	kJ/mol	Joback Method
hfus	35.60	kJ/mol	Joback Method
hvap	64.62	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	2.996		Crippen Method
mcvol	220.410	ml/mol	McGowan Method
pc	1753.60	kPa	Joback Method
rinpol	1843.00		NIST Webbook
rinpol	1843.00		NIST Webbook
tb	715.27	K	Joback Method
tc	902.44	K	Joback Method
tf	419.33	K	Joback Method
vc	0.871	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	628.83	J/mol×K	715.27	Joback Method
cpg	642.09	J/mol×K	746.47	Joback Method
cpg	654.47	J/mol×K	777.66	Joback Method
cpg	666.01	J/mol×K	808.86	Joback Method
cpg	676.73	J/mol×K	840.05	Joback Method
cpg	686.67	J/mol×K	871.25	Joback Method
cpg	695.85	J/mol×K	902.44	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389741&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

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