

Succinic acid, 2,2,3,3-tetrafluoropropyl 4-bromophenyl ester

Inchi:	InChI=1S/C13H11BrF4O4/c14-8-1-3-9(4-2-8)22-11(20)6-5-10(19)21-7-13(17,18)12(15)1
InchiKey:	QFOIZZCBOOATRC-UHFFFAOYSA-N
Formula:	C13H11BrF4O4
SMILES:	O=C(CCC(=O)Oc1ccc(Br)cc1)OCC(F)(F)C(F)F
Mol. weight [g/mol]:	387.12

Physical Properties

Property code	Value	Unit	Source
gf	-1071.00	kJ/mol	Joback Method
hf	-1348.33	kJ/mol	Joback Method
hfus	35.32	kJ/mol	Joback Method
hvap	67.27	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	3.578		Crippen Method
mcvol	209.730	ml/mol	McGowan Method
pc	2179.52	kPa	Joback Method
rinpola	1954.00		NIST Webbook
rinpola	1954.00		NIST Webbook
tb	740.65	K	Joback Method
tc	941.67	K	Joback Method
tf	469.11	K	Joback Method
vc	0.821	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.85	J/molxK	740.65	Joback Method
cpg	569.67	J/molxK	774.15	Joback Method
cpg	579.67	J/molxK	807.66	Joback Method
cpg	588.88	J/molxK	841.16	Joback Method
cpg	597.34	J/molxK	874.66	Joback Method
cpg	605.07	J/molxK	908.16	Joback Method
cpg	612.12	J/molxK	941.67	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=U389817&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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
rinpola:	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/118-314-2/Succinic-acid-2-2-3-3-tetrafluoropropyl-4-bromophenyl-ester.pdf>

Generated by Cheméo on 2024-04-30 05:26:21.62094763 +0000 UTC m=+16744030.541524941.

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