

Glutaric acid, 4-bromophenyl 1,1,1-trifluoroprop-2-yl ester

Inchi:	InChI=1S/C14H14BrF3O4/c1-9(14(16,17)18)21-12(19)3-2-4-13(20)22-11-7-5-10(15)6-8-
InchiKey:	AZPNFEBOVLFP RR-UHFFFAOYSA-N
Formula:	C14H14BrF3O4
SMILES:	CC(OC(=O)CCCC(=O)Oc1ccc(Br)cc1)C(F)(F)F
Mol. weight [g/mol]:	383.16

Physical Properties

Property code	Value	Unit	Source
gf	-867.77	kJ/mol	Joback Method
hf	-1172.86	kJ/mol	Joback Method
hfus	34.83	kJ/mol	Joback Method
hvap	70.31	kJ/mol	Joback Method
log10ws	-5.10		Crippen Method
logp	4.019		Crippen Method
mvol	222.050	ml/mol	McGowan Method
pc	2079.33	kPa	Joback Method
rinpol	1973.00		NIST Webbook
rinpol	1973.00		NIST Webbook
tb	764.26	K	Joback Method
tc	970.41	K	Joback Method
tf	479.79	K	Joback Method
vc	0.859	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	603.78	J/mol×K	764.26	Joback Method
cpg	615.48	J/mol×K	798.62	Joback Method
cpg	626.30	J/mol×K	832.98	Joback Method
cpg	636.25	J/mol×K	867.33	Joback Method
cpg	645.40	J/mol×K	901.69	Joback Method
cpg	653.76	J/mol×K	936.05	Joback Method
cpg	661.37	J/mol×K	970.41	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393282&Units=SI

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

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