Succinic acid, but-3-yn-2-yl 4-biphenyl ester

Inchi: InChI=1S/C20H18O4/c1-3-15(2)23-19(21)13-14-20(22)24-18-11-9-17(10-12-18)16-7-5-4
InchiKey: QPEGSWSGEASGCR-UHFFFAOYSA-N
Formula: C20H18O4
SMILES: C#CC(C)OC(=O)CCC(=O)Oc1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]: 322.35

Physical Properties

Property code	Value	Unit	Source
gf	85.50	kJ/mol	Joback Method
hf	-197.52	kJ/mol	Joback Method
hfus	40.27	kJ/mol	Joback Method
hvap	83.11	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	3.604		Crippen Method
mcvol	251.420	ml/mol	McGowan Method
pc	1987.66	kPa	Joback Method
rinpol	2640.00		NIST Webbook
rinpol	2640.00		NIST Webbook
tb	857.60	K	Joback Method
tc	1094.93	K	Joback Method
tf	556.81	K	Joback Method
vc	0.944	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	725.88	J/mol×K	857.60	Joback Method
cpg	739.49	J/mol×K	897.16	Joback Method
cpg	751.81	J/mol×K	936.71	Joback Method
cpg	762.88	J/mol×K	976.27	Joback Method
cpg	772.77	J/mol×K	1015.82	Joback Method
cpg	781.51	J/mol×K	1055.38	Joback Method
cpg	789.18	J/mol×K	1094.93	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390081&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume