

Sebacic acid, hex-4-yn-3-yl octyl ester

Inchi:	InChI=1S/C24H42O4/c1-4-7-8-9-14-17-21-27-23(25)19-15-12-10-11-13-16-20-24(26)28-
InchiKey:	KVCLJMSDPDBXBH-UHFFFAOYSA-N
Formula:	C24H42O4
SMILES:	CC#CC(CC)OC(=O)CCCCCCCCC(=O)OCCCCCCCC
Mol. weight [g/mol]:	394.59

Physical Properties

Property code	Value	Unit	Source
gf	-116.28	kJ/mol	Joback Method
hf	-761.27	kJ/mol	Joback Method
hfus	63.09	kJ/mol	Joback Method
hvap	89.09	kJ/mol	Joback Method
log10ws	-7.50		Crippen Method
logp	6.356		Crippen Method
mcvol	355.300	ml/mol	McGowan Method
pc	939.79	kPa	Joback Method
rinpol	2719.00		NIST Webbook
rinpol	2719.00		NIST Webbook
tb	909.66	K	Joback Method
tc	1113.76	K	Joback Method
tf	595.66	K	Joback Method
vc	1.383	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1165.20	J/molxK	909.66	Joback Method
cpg	1183.91	J/molxK	943.68	Joback Method
cpg	1201.29	J/molxK	977.69	Joback Method
cpg	1217.35	J/molxK	1011.71	Joback Method
cpg	1232.13	J/molxK	1045.73	Joback Method
cpg	1245.66	J/molxK	1079.74	Joback Method
cpg	1257.97	J/molxK	1113.76	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=U355825&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
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/34-994-1/Sebacic-acid-hex-4-yn-3-yl-octyl-ester.pdf>

Generated by Cheméo on 2026-04-23 00:24:25.217225409 +0000 UTC m=+669214.275307631.

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