

# I-Leucine, n-heptafluorobutyryl-, dodecyl ester

**Inchi:** InChI=1S/C22H36F7NO3/c1-4-5-6-7-8-9-10-11-12-13-14-33-18(31)17(15-16(2)3)30-19(3)  
**InchiKey:** LQGCHSLGQVKGST-UHFFFAOYSA-N  
**Formula:** C22H36F7NO3  
**SMILES:** CCCCCCCCCCOC(=O)C(CC(C)C)NC(=O)C(F)(F)C(F)(F)C(F)(F)F  
**Mol. weight [g/mol]:** 495.51

## Physical Properties

Property code	Value	Unit	Source
gf	-1499.12	kJ/mol	Joback Method
hf	-2210.90	kJ/mol	Joback Method
hfus	54.49	kJ/mol	Joback Method
hvap	76.52	kJ/mol	Joback Method
log10ws	-8.02		Crippen Method
logp	6.814		Crippen Method
mcvol	352.220	ml/mol	McGowan Method
pc	840.16	kPa	Joback Method
rinsol	2115.00		NIST Webbook
tb	867.41	K	Joback Method
tc	1063.99	K	Joback Method
tf	493.84	K	Joback Method
vc	1.413	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1178.02	J/molxK	867.41	Joback Method
cpg	1195.60	J/molxK	900.17	Joback Method
cpg	1212.08	J/molxK	932.94	Joback Method
cpg	1227.53	J/molxK	965.70	Joback Method
cpg	1242.07	J/molxK	998.46	Joback Method
cpg	1255.78	J/molxK	1031.22	Joback Method
cpg	1268.75	J/molxK	1063.99	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321001&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321001&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/68-869-3/l-Leucine-n-heptafluorobutyryl-dodecyl-ester.pdf>

Generated by Cheméo on 2024-04-23 09:21:53.619915021 +0000 UTC m=+16153362.540492337.

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