

GC-MS EI-spectral library of butyl rubber oligomers

ASAS has compiled a NIST-compatible library of EI mass spectra. The library can be downloaded for free at:

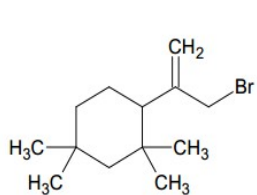
[ASAS Rubber Oligomers.HP](#)

Just copy into your NISTxx/MSSEARCH folder and add the library using the “Library search options” function.

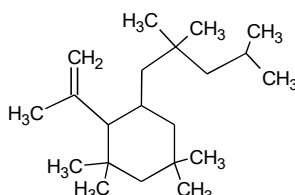
Each spectrum was generated using ASAS analytical standards. These standards are rigorously tested by an independent, GLP/GMP certified CRO ([Spectral Service AG](#)). Identity is confirmed by ¹H and ¹³C-NMR. The content of each batch is determined by quan-NMR.

The library consists of:

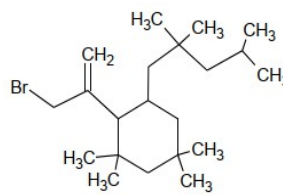
article no.	name	synonym	formula	CAS no.
ASAS-001	Br-C13 oligomer	rubber oligomer 6	C13H23Br	2514965-51-4
ASAS-003	C21 oligomer	rubber oligomer 3	C21H40	2512216-71-4
ASAS-004	Br-C21 oligomer	rubber oligomer 5	C21H39Br	2518227-14-8
ASAS-005	C13 oligomer	rubber oligomer 1	C13H24	63251-38-7
ASAS-006	Cl-C21 oligomer	rubber oligomer 4	C21H39Cl	2446375-29-5
ASAS-007	Br-C21 oligomer Z-isomer	n.a.	C21H39Br	n.a.
ASAS-008	Br-C21 oligomer E-isomer	n.a.	C21H39Br	n.a.



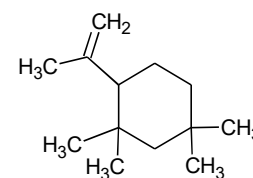
C13H23Br



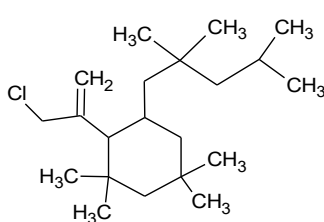
C21H40



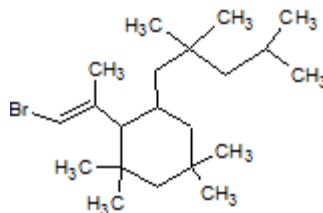
C21H39Br



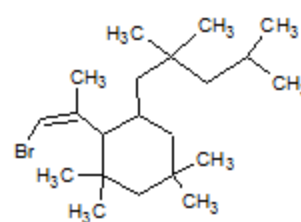
C13H24



C21H39Cl



C21H39Br E-isomer



C21H39Br Z-isomer

Using this library, the level of confidence for rubber oligomers in an E&L study can be raised to „confident“ [1].

If you need an „confirmed“ identification [1] or quantitative results, ASAS can provide the required analytical standards.

The library will be updated, once new standards are available (e.g. isomers of C₁₃H₂₃Br and C₂₁H₃₉Cl).

[1]: *United States Pharmacopeia, USP<1663> Assessment of extractables associated with pharmaceutical packaging/delivery systems*

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