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| Wavenumber range (cm-1) | Function group |
| Around 530 | BF4 Asymmetric angle variation |
| Around 720±4 | CH2 Out of face swaying |
| From 880 to 820 | Peroxide O-O stretch |
| From 1020 to 850 | Sulfuric acid ester C-O stretch |
| Around 1080 | Sulfate / Persulfate SO3 symmetric stretching |
| Around 1155 | CF2 symmetric stretching |
| Around 1230±10 | C-C of -C(CH3)2 stretch |
| Around 1363 | Azide-N3 symmetric stretching |
| Around 1460±5 | CH3 Asymmetric angle variation |
| Around 1750±10 | Carbonate C=O stretch |
| Around 2855±5 | CH2 symmetric stretching |
| Around 2925±5 | CH2oppose the concept of scalability |
| Around 3000 | =CH2 symmetric stretching |
| From 3270-3480 | NH2 oppose the concept of scalability |























